

# Reference Guide

Version 8 Edition



"Reference to common tasks performed in FeedWatch"



## TABLE OF CONTENTS

<b>General Information</b>	<b>8</b>
About this Manual	8
VAS Support Information	8
Special Notificatons	9
<b>SOFTWARE: Installation</b>	<b>10</b>
Installing FeedWatch Software	10
<b>EQUIPMENT: Setup and Installation</b>	<b>11</b>
Office Equipment	11
Mixer Equipment	13
WeighRite Equipment	18
<b>EQUIPMENT: Product Information</b>	<b>21</b>
Mobile Demand xTablet T7200	21
<b>Scale Indicator Calibration Instructions</b>	<b>22</b>
FeedWatch GSE 5500 (Using Load Cell Information)	22
FeedWatch GSE 5500 (Using a Known Weight)	23
WeighRite GSE 5500 (Using a Known Weight)	24
<b>FeedWatch Version 8</b>	<b>25</b>
What's New?	25
Common Terms and Abbreviations	26
FeedWatch Version Comparison	27
<b>FeedWatch Graphic Interface</b>	<b>28</b>
Menu Bar	28
Application Menu Options	29
Main Ribbon Bar	30
Tabs	31
Layouts	32
Grid Layout	33

Panel Layout.....	36
Grouping.....	37
Column Modifications .....	41
More Customization Features .....	46
Panel Modifications.....	46
Conditional Formatting .....	51
<b>Setup Settings .....</b>	<b>55</b>
Setup Overview .....	55
Setup Ribbon Bar.....	55
<b>Ingredients .....</b>	<b>56</b>
Ingredients Overview .....	56
Creating an Ingredient.....	56
Changing the DM% of an Ingredient .....	59
“All Ingredients” Tab .....	60
Deleting an Ingredient.....	61
Copying an Ingredient .....	62
Ingredient Projections .....	63
Viewing Projections from the Ingredient Tab .....	64
Viewing Projections from the Projections Tab.....	66
<b>Recipes .....</b>	<b>67</b>
Recipes Overview .....	67
Creating a Recipe.....	67
Creating a Premix .....	70
Adding an Ingredient to a Recipe .....	73
Adding a Mixing Delay to a Recipe .....	76
Removing an Ingredient from a Recipe .....	78
Deleting a Recipe.....	79
Copying a Recipe .....	80
Alternate Recipes .....	81

Setting up an Alternate Recipe.....	81
Activating an Alternate Recipe .....	83
<b>Pens .....</b>	<b>85</b>
Pens Overview .....	85
Creating a New Pen .....	85
Adding Feeding(s) to an Existing Pen.....	89
Removing a Feeding from a Pen .....	91
Setting up Override Feedings .....	92
Deleting a Pen.....	94
Copying a Pen .....	96
<b>Feeding Schedule .....</b>	<b>97</b>
Feeding Schedule Overview .....	97
Multiple Feedings on One Load .....	98
Viewing Method .....	99
Scheduling Method .....	100
Scheduled Load (example) .....	101
Load Modifications .....	102
<b>Equipment.....</b>	<b>109</b>
Adding New Equipment.....	109
Deleting Equipment .....	111
<b>Communication Services .....</b>	<b>112</b>
Communication Overview .....	112
Service Status .....	113
Equipment Communication.....	115
Exporting Data to the Equipment.....	116
Scheduled Tasks.....	117
DC 305 Data Imports .....	118
Tasks Log / Troubleshooting.....	119
<b>Devices .....</b>	<b>121</b>



Devices Overview .....	121
Setting Up a New Device .....	121
<b>Reports.....</b>	<b>126</b>
FeedWatch V8 Reporting Overview .....	126
Report Tab .....	127
Report Filters .....	128
Viewing a Report .....	133
Creating a Report - Overview .....	135
Creating a “Grid” Report .....	135
Creating a “Page” Report .....	140
Modifying Reports - Overview .....	142
Modifying a “Grid” Report .....	142
Modifying a “Page” Report .....	143
Exporting a Report.....	145
<b>Inventory Management.....</b>	<b>146</b>
Inventory Tracking Overview.....	146
Version 8 Inventory Tracking – What’s New?.....	146
Inventory Tracking Basics .....	146
Base Cost vs. Current Cost.....	147
Creating Vendors.....	148
Enabling Inventory Tracking .....	150
Commodity Types .....	151
Overview .....	151
Creating a new Ingredient Commodity Type .....	152
Creating a new Milk Commodity Type .....	154
Deliveries vs. Sales.....	156
Creating Delivery Transactions .....	157
Creating Sales Transactions .....	160
Ingredient Sales.....	160

Non-Ingredient Sales (Milk, Animal, Waste, Other) .....	162
Modifying a <b>Delivery</b> Transaction .....	165
“Void” a Delivery .....	165
Adjusting the “Quantity” of a Delivery .....	167
Adjusting Delivery Information .....	169
Modifying a <b>Sales</b> Transaction .....	170
“Void” a Sale .....	170
Adjusting the “Quantity” of a Sale .....	172
Adjusting Sale Information .....	174
Modifying <b>Inventory</b> Information .....	175
Zero Inventory .....	175
Recalculate Inventory .....	177
Transfer Inventory (location to location) .....	178
Inventory Shrink .....	181
<b>User Setup</b> .....	<b>182</b>
Adding a User .....	182
Deleting a User .....	185
<b>Security Groups</b> .....	<b>186</b>
Security Groups Overview .....	186
Adding a Security Group .....	186
Applying a Security Group to a User .....	187
<b>Task Scheduler</b> .....	<b>188</b>
Task Scheduler Overview .....	188
Creating a Scheduled Task .....	189
<b>Weighbacks</b> .....	<b>192</b>
Weighbacks Overview .....	192
Entering Weighback Quantities into FeedWatch .....	193
Feeding Weighback .....	194
Straight Drop Method .....	195

Cleanup as Ingredient Method.....	196
Cleanup as Filler Method .....	197
<b>Change History .....</b>	<b>198</b>
Change History Overview .....	198
View Change History via History Icon .....	198
View Change History via Panel Box .....	200
Adjust Feed History .....	202

# GENERAL INFORMATION

## ABOUT THIS MANUAL

### **Objectives:**

This manual is to provide you, the user, a general “how-to” guide for operating the FeedWatch (FW) Version 8 desktop application. The intent is to provide basic technical instructions and awareness to successfully operate the program. More detailed technical and/or feed management topics are not covered in this manual. Special attention will be made throughout the manual to identify the main changes and new features that FeedWatch Version 8 has to offer.

*Your FeedWatch screen may look different than some of the screen shots shown in this manual.  
(This manual was written using Version 8.0.219)*

**Please contact a VAS support technician with any questions you may have or to get more information not covered in this manual.**

## VAS SUPPORT INFORMATION

### **Normal business hours:**

Monday - Friday

6:00 am PST – 5:00 pm PST

### **After hours support:**

7 days/week

5:00 pm PST – 6:00 am PST

**For FeedWatch technical support, feel free to call or email:**



(559) 686-9496 ext. 302

(888) 225-6753 ext. 302

[fwsupport@vas.com](mailto:fwsupport@vas.com)

## SPECIAL NOTIFICATIONS

Below are some examples of notifications you will see throughout this manual.



**NOTE:** A ***note*** will contain general information about the program or a specific procedural step.



**TIP:** A ***tip*** will provide a suggestion or another method that can be used.



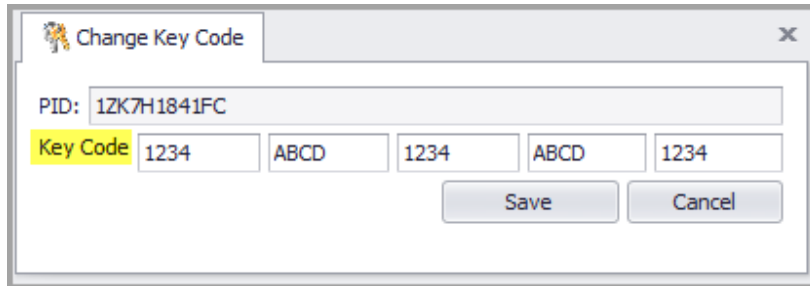
**WARNING:** A ***warning*** notice will provide an alert for the user regarding an important message.

# SOFTWARE: INSTALLATION

## INSTALLING FEEDWATCH SOFTWARE

*To install FeedWatch on your computer, please contact VAS technical support for the following:*

- ✓ FeedWatch installation files
- ✓ FeedWatch authorization “keycode”



After the FeedWatch software is installed, a KEY CODE will be generated by a VAS support technician. The KEY CODE will then be entered into your FeedWatch setup profile to validate the FeedWatch program.



(559) 686-9496 ext. 302

(888) 225-6753 ext. 302

[fwsupport@vas.com](mailto:fwsupport@vas.com)

# EQUIPMENT: SETUP AND INSTALLATION

## OFFICE EQUIPMENT

### INSTALLATION NOTES:

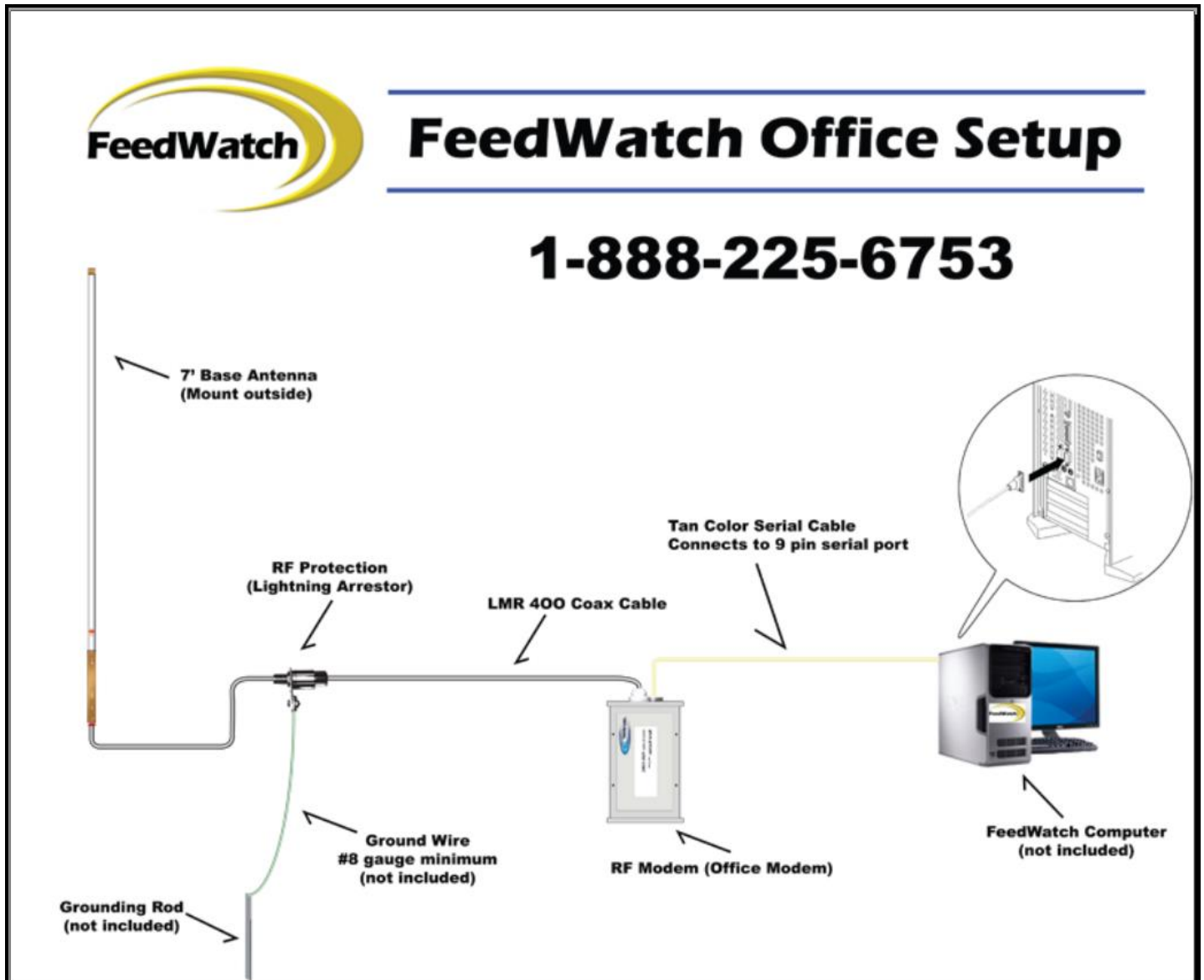
---

- ▶ It is recommended that a **licensed electrician** install the antenna, lightning arrestor, cables, and grounding rod.
- ▶ External office antenna should be mounted at or above roof line to minimize potential signal obstruction.
- ▶ Office modem can be connected to the computer via 9 pin serial or USB connection. The 9 pin cable is highly recommended.

*An example of a typical office equipment setup is noted on the following pages. Your office equipment setup may vary slightly from the diagrams detailed below (depending on equipment used).*

## EXAMPLE: FEEDWATCH OFFICE EQUIPMENT SETUP

- ✓ 7' external antenna
- ✓ Lightning arrestor
- ✓ Freewave office modem
- ✓ 9 pin serial cable (from modem to computer)





### INSTALLATIONS NOTES: GSE 5500

---

- ▶ Should be installed in a location where there will be minimal contact with moisture (i.e. snow/rain). If mounted outside (i.e. stationary mixer setup), it is recommended to mount the GSE 5500 in an enclosure or install a protective cover over the GSE 5500.

### INSTALLATIONS NOTES: FREEWAVE MIXER MODEM

---

- ▶ It is recommended to **avoid installing the modem in direct contact with metal**. Damage to the outside coating of the modem could result in decreased performance of the modem. Preferred installation methods include wrapping the modem with rubber, foam, or similar type material when installing.

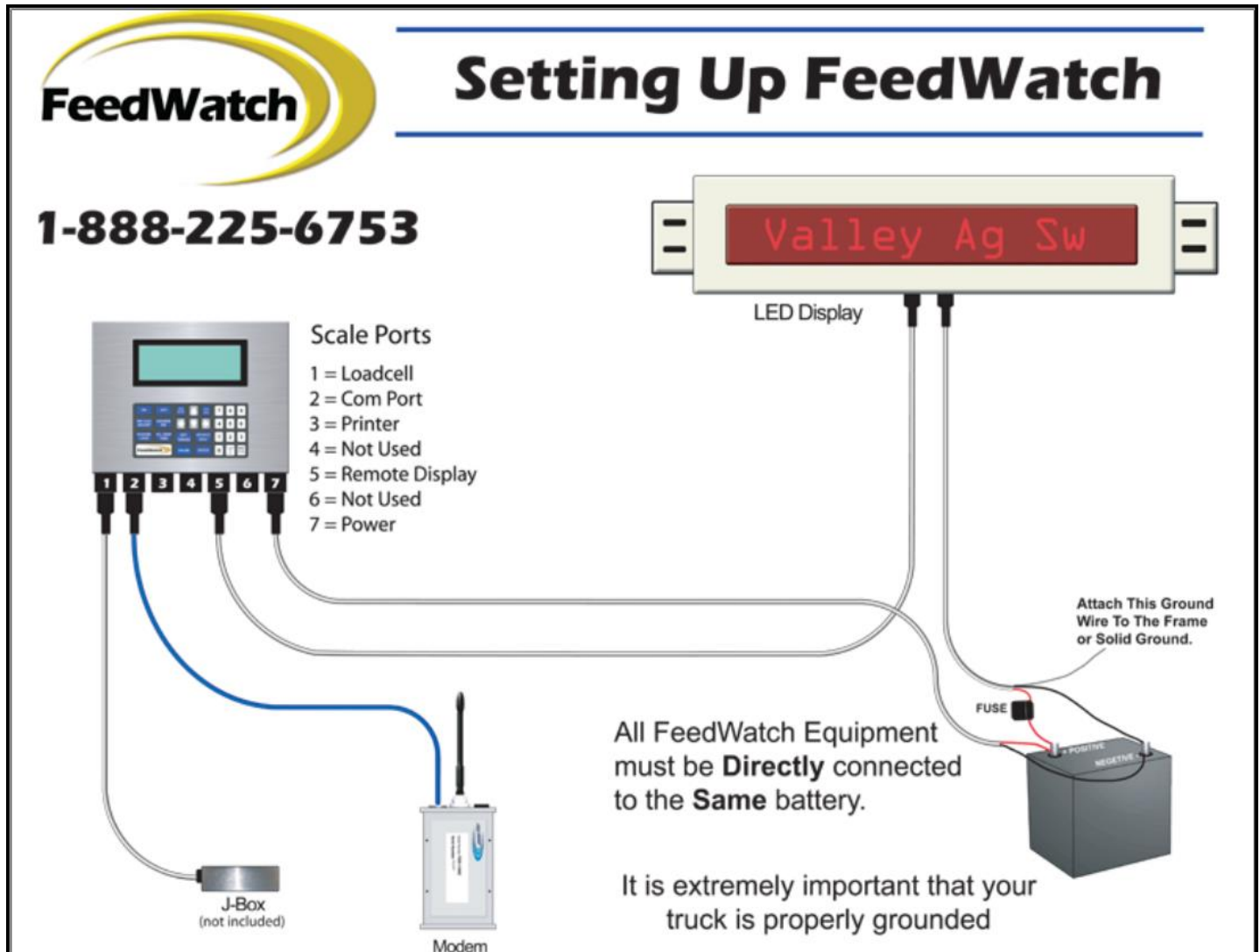


**WARNING:** TO AVOID POSSIBLE DAMAGE to the mixer equipment, be sure to DISCONNECT all cables from the mixer equipment prior to performing any welding or similar maintenance on the mixer.

*Examples of various mixer equipment setups are noted on the following pages. Your mixer equipment setup may vary slightly from the diagrams detailed below (depending on what scale indicator, modem, or display combination is used).*

## EXAMPLE 1: FEEDWATCH MIXER EQUIPMENT SETUP

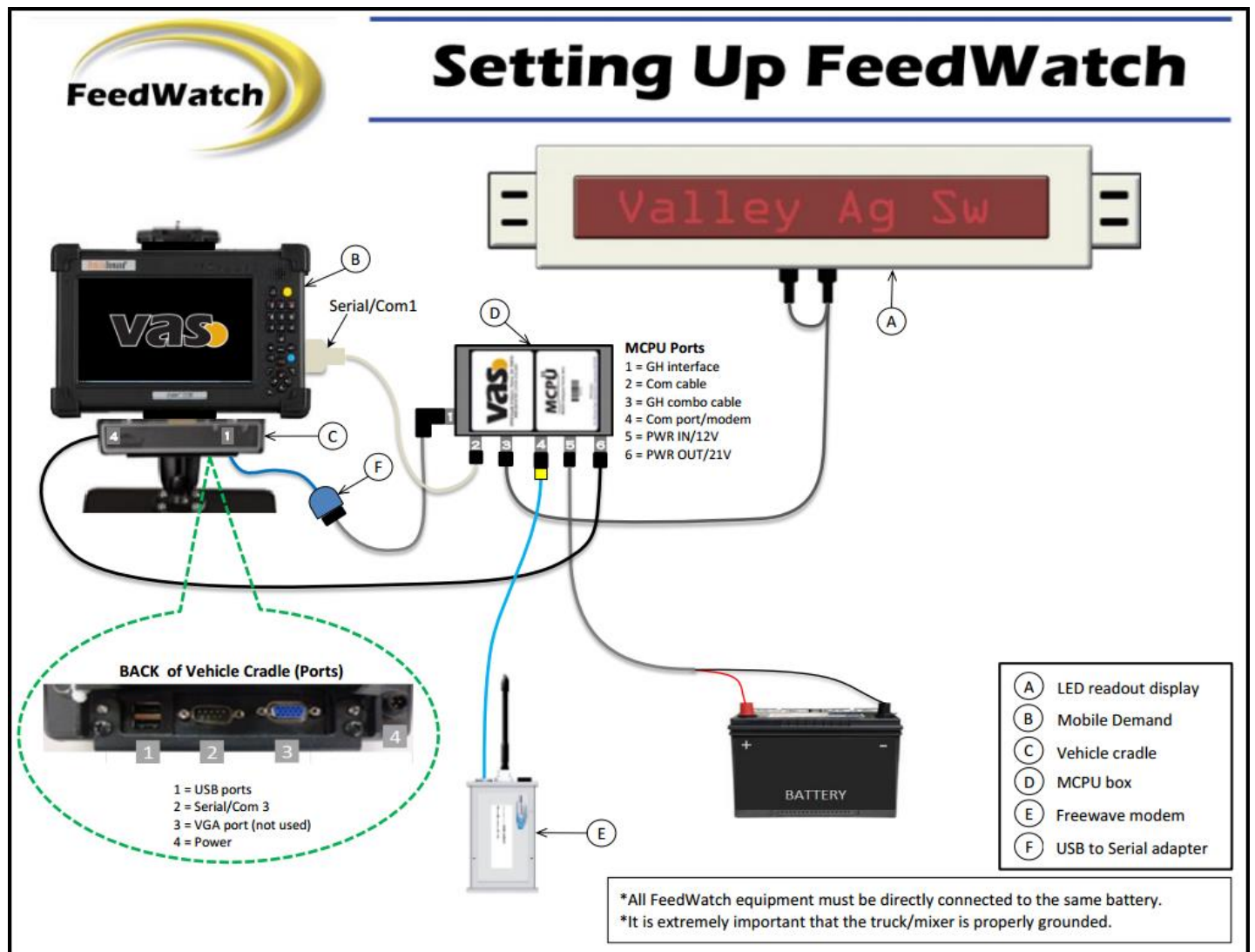
- ✓ Mobile mixer (i.e. mixes and drops feed directly to the pens)
- ✓ GSE 5500 scale indicator
- ✓ Freewave modem
- ✓ Grayhill LED display (x1)



## EXAMPLE 2: FEEDWATCH MIXER EQUIPMENT SETUP

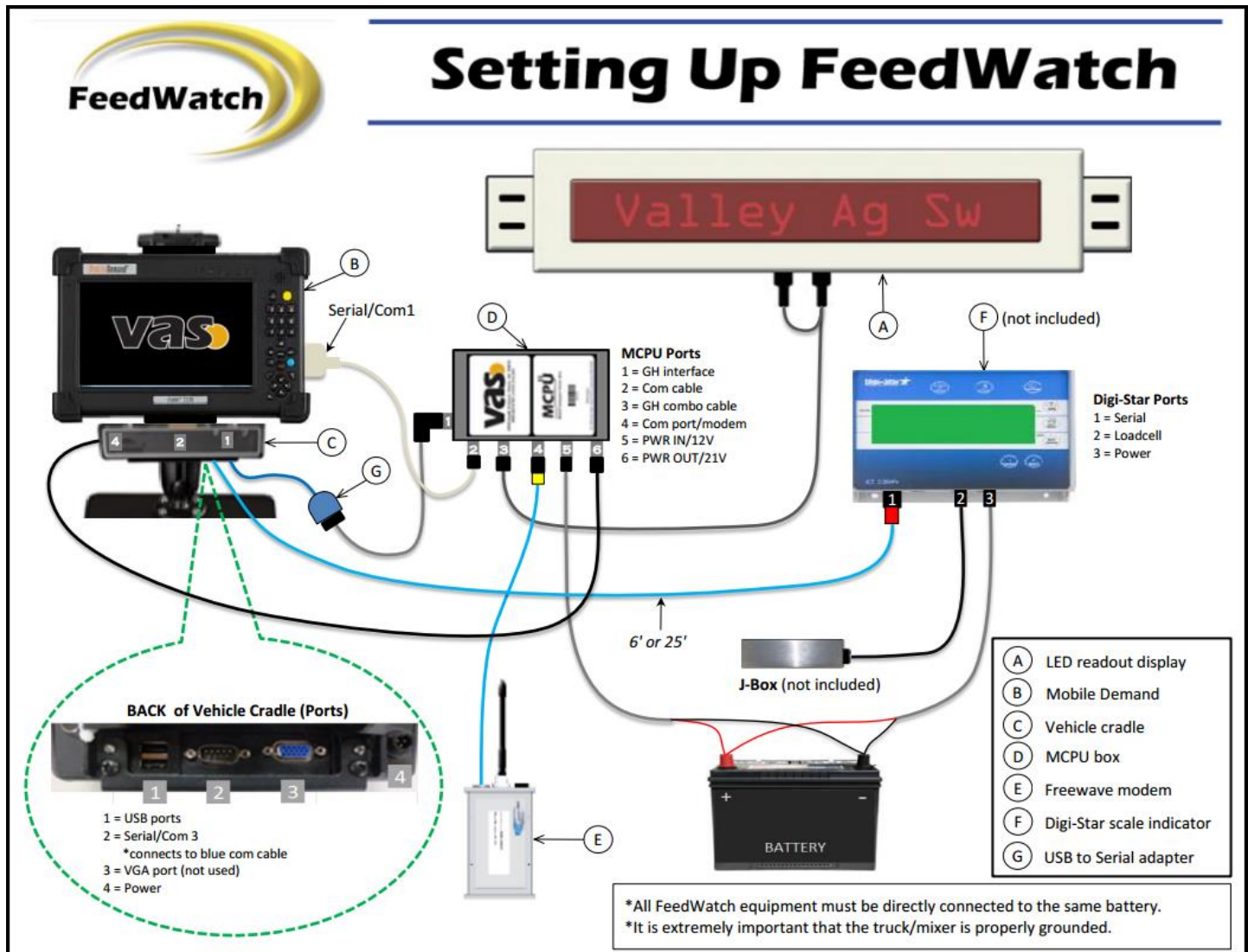
- ✓ Mobile mixer (i.e. mixes and drops feed directly to the pens)
- ✓ Mobile Demand touch screen tablet
- ✓ Freewave modem
- ✓ Grayhill LED display (x1)

\*scale indicator not shown\*



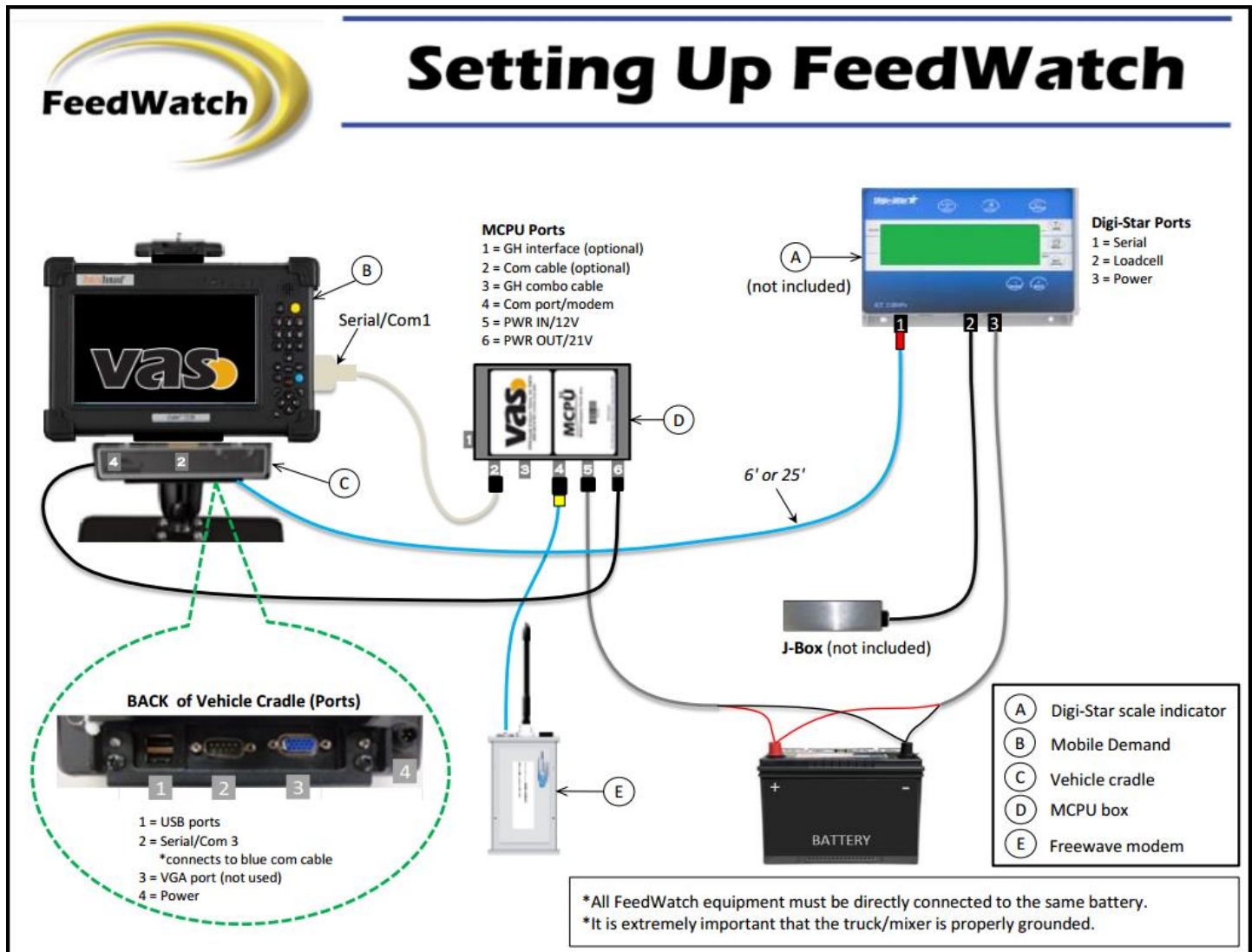
### EXAMPLE 3: FEEDWATCH MIXER EQUIPMENT SETUP

- ✓ Mobile mixer (i.e. mixes and drops feed directly to the pens)
- ✓ Mobile Demand touch screen tablet
- ✓ Freewave modem
- ✓ Grayhill LED display (x1)
- ✓ Digi-Star scale indicator



#### EXAMPLE 4: FEEDWATCH MIXER EQUIPMENT SETUP

- ✓ Mobile mixer (i.e. mixes and drops feed directly to the pens)
- ✓ Mobile Demand touch screen tablet
- ✓ Freewave modem
- ✓ Digi-Star scale indicator
- \*No readout display\*



### INSTALLATION NOTES:

---

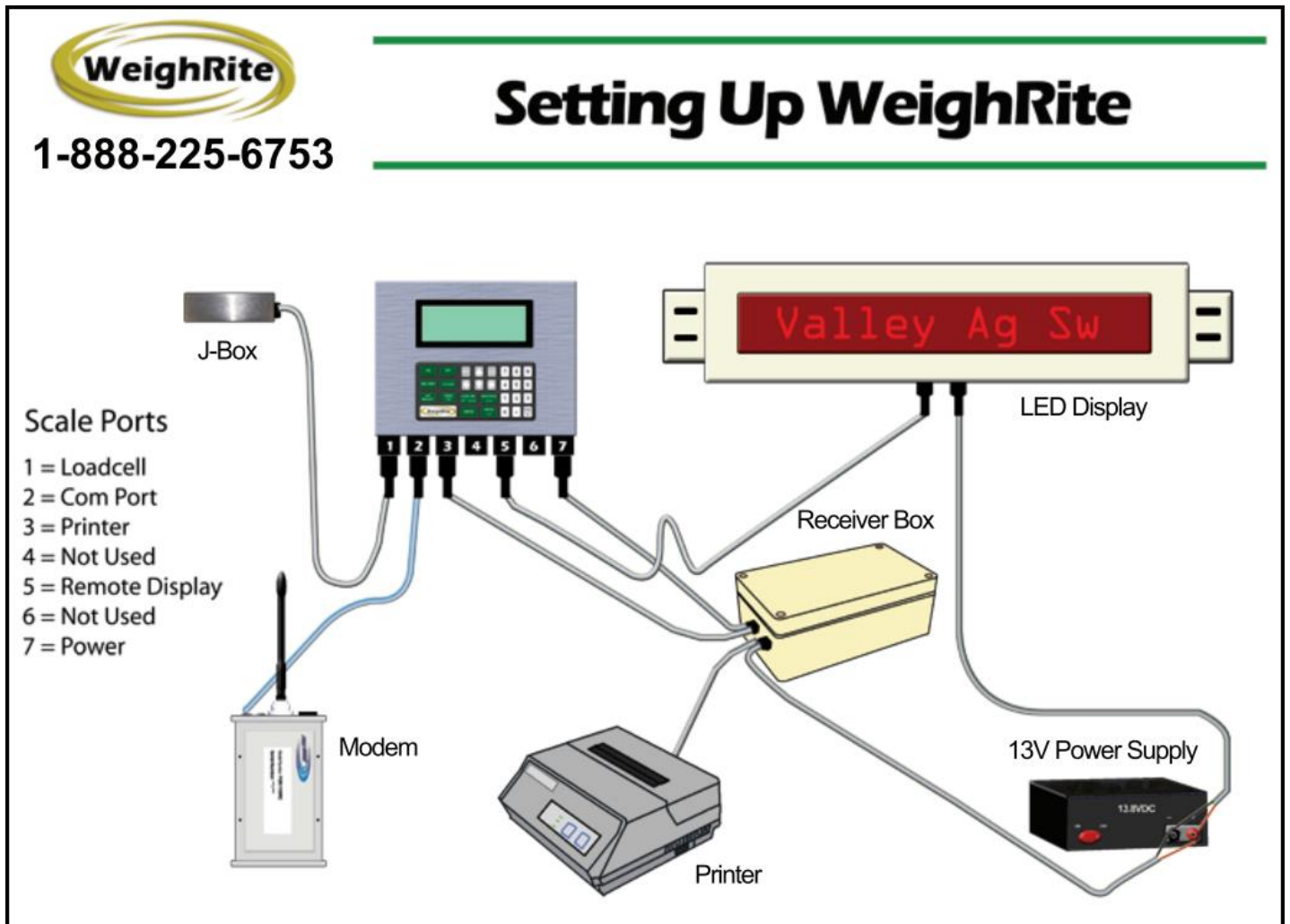
- ▶ It is recommended that a **licensed electrician** install the antenna, lightning arrestor, cables, and grounding rod (if used with your WeighRite setup).
- ▶ External antenna should be mounted at or above roof line to minimize potential signal obstruction (if used with your WeighRite setup).

*Examples of various WeighRite equipment setups are noted on the following pages. Your WeighRite setup may vary slightly from the diagrams detailed below (depending on what equipment is used).*



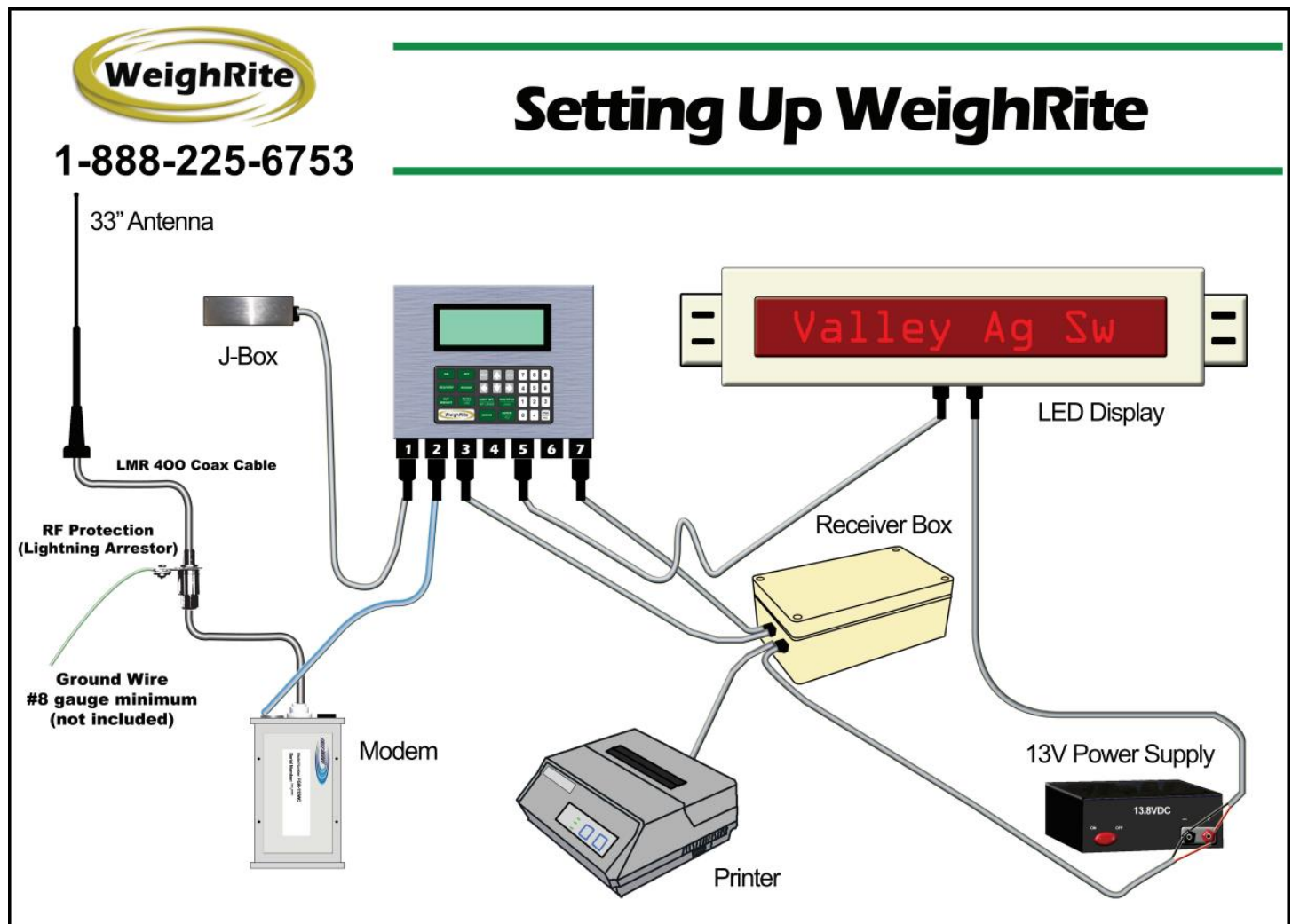
## EXAMPLE 1: WEIGHRITE EQUIPMENT SETUP

- ✓ Freewave modem (with whip antenna)
- ✓ GSE 5500 scale indicator
- ✓ Grayhill LED display (x1)
- ✓ WeighRite printer
- ✓ WeighRite receiver box (used for passports)
- ✓ Power supply



## EXAMPLE 2: WEIGHRITE EQUIPMENT SETUP

- ✓ Freewave modem
- ✓ 33" external antenna
- ✓ Lightning arrestor
- ✓ GSE 5500 scale indicator
- ✓ Grayhill LED display (x1)
- ✓ WeighRite printer
- ✓ WeighRite receiver box (used for passports)
- ✓ Power supply





## EQUIPMENT: PRODUCT INFORMATION

### MOBILE DEMAND XTABLET T7200

For more information regarding the Mobile Demand xTablet T7200, refer to the following links:

<http://www.ruggedtabletpc.com/products/xtablet-t7200/>

<http://www.ruggedtabletpc.com/Portals/75922/docs/2012%20brochures%20new%20template/2012%2011%2005%20xtablet%20t7200.pdf>

For more information regarding the Mobile Demand xTablet T7200 mounting options, refer to the following link:

<http://www.ruggedtabletpc.com/Portals/75922/docs/T7200%20Vehicle%20Wiring%20Kit-20%2021%20Installation%20Guide.pdf>

## The High Performance Mini Tablet xTablet® T7200



### Performance When It Counts

The MobileDemand xTablet T7200 combines the functionality of a notebook, full Windows OS of a tablet and the portability and data collection capabilities of a handheld. The all new supercharged Intel® Atom processor provides 2.35 times better CPU performance and 4 times better disk performance to handle graphic and data intensive applications.

### Bright Sunlight Power Conserving Display

The 7" touch screen display with revolutionary new MobileDemand xView Pro™ technology offers 35% improved battery life over similar devices. xView Pro has an automatic light sensing capability allowing it to read the ambient light levels and adjust the backlight down or even off to provide optimum visual performance while minimizing power usage. The display provides full motion video and full color capacity and high contrast viewing in bright sunlight.

### 4G LTE, 3G Gobi, Bluetooth Connectivity and More

Mobile workers stay connected with the optional 4G LTE or 3G Gobi WWAN radios and wireless networks. Other features include the built-in numeric keypad and 5 MP color camera; and optional GPS, full QWERTY keyboard, integrated bar code scanner, and a magnetic stripe smart card (CAC) reader. Hot swappable high capacity batteries last a full-shift and more – up to 10 hours.

### Rugged, Reliable and Lower Total Cost

The xTablet T7200 is built military rugged with an IP65 sealant rating for dust and water and MIL-STD 810G drop, vibration and humidity rating, and operates in temperatures from -4F to +122F. This fully rugged tablet will provide near 100% uptime in mission critical line of business applications providing long-term savings over non-rugged devices.

# SCALE INDICATOR CALIBRATION INSTRUCTIONS

## FEEDWATCH GSE 5500 (USING LOAD CELL INFORMATION)

**It is highly recommended that you calibrate the scale indicator any time a change is made to the mixer** (i.e. new blades on the mixer augers, new load cell, mixer lining replaced, etc.).

Prior to calibrating using the **LOAD CELL METHOD**, you will need to know the following:

**Number of load cells** (step #8), **load cell's rated output** (step #9), **load cell's full scale capacity** (step #11)

### CALIBRATING THE FEEDWATCH GSE 5500 SCALE INDICATOR (using Load Cell information)

**\*\*\*Mixer must be empty before calibration**

1. Press the **[OFF]** button.
2. Remove the modem cable from the COM Port (second from left facing the scale head).
3. Press the **[ON]** button.
4. Enter **scale only** mode/operation on the scale by selecting number 2.
5. Type **100**, then press **[NET/GROSS]**. Type **23640**, then press **[HELP] [ENTER]** (If done correctly, it will take you to the P108 parameter). *This step needs to be completed within 5 seconds.*
6. Press the **[ADVANCE ZERO]** button. The scale will say (Enter=Cal). Press **[ENTER]**. (scale should say New Zero)
7. Press the **[CHOOSE LOAD]** button. (Known LCOut) is displayed. Press **[ENTER]**.
8. (#ofLC) is displayed, key in the number of load cells and press **[ENTER]**. (Just Press ENTER if the correct number of LC is already there).
9. (LC#xm Vv) is displayed; key in the load cell's rated output value and press **[ENTER]**. (Just Press ENTER if the correct number is already there).
10. Repeat step 9 for as many load cells that were declared in step 8.
11. (LCFS) is displayed, key in load cell's full scale capacity in pounds and press **[ENTER]**. (Just press ENTER if the number is already there).
12. (CurWT Zero?) is displayed on the screen. Press **[ENTER]**.
13. Press **[ENTER]** on Cal Ok?
14. Press **[ENTER]** on Enter=Save.
15. Press **[ENTER]** on Enter=Exit.
16. Press the **[OFF]** button.
17. Plug in the modem cable to the COM Port (2<sup>nd</sup> from the left).

**It is highly recommended that you calibrate the scale indicator any time a change is made to the mixer** (i.e. new blades on the mixer augers, new load cell, mixer lining replaced, etc.).

Prior to calibrating using the **KNOWN WEIGHT METHOD**, an accurate weight will need to be available to add to the mixer (i.e. previously weighed commodity with another scale) (step #10). Try to use as much weight as possible. The larger the mixer, the more weight that will need to be added to ensure the most accurate calibration.

## **CALIBRATING THE FEEDWATCH GSE 5500 SCALE INDICATOR (using a Known Weight)**

**\*\*\*Mixer must be empty before calibration**

1. Press the **[OFF]** button.
2. Remove the modem cable from the COM Port (second from left facing the scale head).
3. Press the **[ON]** button.
4. Enter **scale only** mode/operation on the scale by selecting number 2.  
NOTE: If using a WeighRite scale indicator, press **[SETUP]** and then number 2 (GSE Scale Mode).
5. Type **100**, then press **[Net/Gross]**. Type **23640**, then press **[HELP] [ENTER]** (If done correctly, it will take you the P108 parameter). *This step needs to be completed within 5 seconds.*
6. Press the **[ADVANCE ZERO]** button. The scale will say (Enter=Cal). Press **[ENTER]**.  
(scale should say New Zero)
7. Press the **[NET/GROSS]** button 4 times until (Cal Reset) appears and then press **[ENTER]**.
8. Press **[ENTER]** when scale asks (New Zero?).
9. Scale will show (Key in Cal Wt) at this point **enter the known weight** you are using (for example 5000 lbs.) and press **[ENTER]**.
10. Scale shows (Add CalWt). Now, load the weight to the mixer box and then press **[ENTER]**. (If scale displays Recal?, press **[ESC/CLEAR]**).
11. Press **[ENTER]** on Cal Ok?
12. Press **[ENTER]** on Enter=Save.
13. Press **[ENTER]** on Enter=Exit.
14. Press the **[OFF]** button.
15. Plug in the modem cable to the COM Port (2<sup>nd</sup> from the left).

Prior to calibrating using the **KNOWN WEIGHT METHOD**, an accurate weight will need to be available to add to the platform scale (i.e. previously weighed truck with a calibrated scale) (step #10). Try to use as much weight as possible.

### Calibrating the WeighRite GSE 5500 Scale Indicator (WITH A KNOWN WEIGHT)

**\*Please turn OFF the scale head and REMOVE any communication cables before the calibration is performed (COM & Printer Port – 2<sup>nd</sup> & 3<sup>rd</sup> Ports from Left to Right facing the scale head).**

**\*Remove any weight from the platform scale.**

**\*\*\*TO PERFORM THE STEPS BELOW, A KNOWN WEIGHT WILL NEED TO BE USED. Do not proceed with known weight calibration unless an accurate weight has been identified and ready for use during the calibration procedures (the more weight, the better).**

1. Press the [ON] button.
2. Press the [SETUP] button.
3. Highlight [2] “GSE Scale Only Mode” by highlighting it and pressing [ENTER] (or just press [2]).
4. Type 100 – [LIGHT WT.] – 23640 – [HELP] – [ENTER].
5. Press the [MULTIPLE / ZERO] button to enter Cal? Mode, then press [ENTER].
6. Press the [LIGHT WT.] button 4 times until Cal Reset appears and then press [ENTER].
7. Press [ENTER] when scale asks (New Zero? – no weight should be on the platform scale).
8. Scale will show “Key in Cal Wt.” At this point **type in the known weight** that you are using.
9. Press [ENTER].
10. Scale shows “Add CalWt.” Place the known weight onto the platform scale and then press [ENTER]. (If scale displays *Recal?*, press [ESC/CLEAR])
11. Press [ENTER] on “Cal Ok?”
12. Press [ENTER] on “Enter=Save”
13. Press [ENTER] on “Enter=Exit”

**\*Turn OFF the scale indicator. RECONNECT any cables that were previously removed.**

# FEEDWATCH VERSION 8

## WHAT'S NEW?

- More modification capabilities on the **FeedWatch interface**
- Dairy Comp 305 **pen data integration** enhancements
- Dairy Comp 305 individual **animal data integration**
- **Inventory management** enhancements
- More powerful and user friendly **report writing** capabilities
- **Automation** functionality

## COMMON TERMS AND ABBREVIATIONS

For your reference, the following is a list of common terms and abbreviations used in FeedWatch. Most of these terms and abbreviations are used in this manual. Also note that support technicians may often use many of these terms.

TERM/ABBREVIATION	DESCRIPTION
<b>Application Menu</b>	Available at the top-left of the FW application window. Pick this menu to change FW view options, review info about the program, and/or exit the application.
<b>Base Cost</b>	General cost of an ingredient. Used if FIFO cost is not implemented.
<b>Chemistries</b>	Nutrient value makeup of an ingredient or recipe (i.e. CP, Ca, P, Fat, NDF, ADF, etc.).
<b>Current Cost</b>	
<b>Database Backup</b>	Creates a full backup (.bak file) of the FW database. This typically will be a large file.
<b>Database Export</b>	Creates a backup (.xml file) of the FW database. This typically will be a smaller file than a .bak backup.
<b>Day Start Time</b>	Time when FeedWatch considers a new feeding day to start. Loads will reset at this time.
<b>DC305 Items</b>	Dairy Comp 305 Items (refers to specific animal data imported from DC305 into FW) (i.e. DIM, AGE, DCC, DOPN, LACT, RPRO, etc.)
<b>DC305 Pen Counts</b>	Dairy Comp 305 Pen counts (refers to the number of animals in a pen imported from DC305 into FW)
<b>Delay</b>	Amount of time the feeder will have to wait prior to proceeding with loading the next ingredient or unloading. This time is setup in minutes and can be applied after a specific ingredient is loaded or at the end of the mix.
<b>Density Factor</b>	Measures the “density” or “fluff factor” of the recipe. Displayed as a percentage of total mixer capacity.
<b>Drop Sequence</b>	If multiple pens are on the same load, FW will drop to the pen with the smallest drop sequence number.
<b>Equip Adjustments</b>	Sends any data changes made in FW (since last adjustment/export) wirelessly to the mixer equipment.
<b>Equip Export</b>	Sends all FW data wirelessly to the mixer equipment.
<b>Feeding Time Window</b>	Used by the FeedWatch feed scheduler. In order for multiple pens to be combined on the same load, the scheduled time of each feeding must fall within the Feeding Time Window setting (30 minutes by default).
<b>FIFO</b>	First In First Out
<b>Fly-out menu</b>	A secondary menu that appears when you select an item on the primary menu. ( <i>example:</i> Right-click on any tab in the application to get a fly-out menu to appear)
<b>FW</b>	FeedWatch
<b>Grid</b>	Refers to a table-like display showing a series of rows and columns of information.
<b>Grouping</b>	Method used to sort a list based of a predefined category or item.
<b>Layouts</b>	A specific arrangement of information and data on the application screen. Custom layouts can be created and/or saved. Layouts can be saved for both grids and panels.
<b>Microbatcher</b>	Machine interface used to automate the loading of micro-ingredients.
<b>Panel</b>	Refers to a box of information relating to its parent tab. (i.e. Feedings, Ration, Settings, etc. are all panels of information relating to the PENS tab)
<b>Pull-down menu</b>	Displays a menu of commands or options after clicking on its parent down arrow icon. May also be referred to as a “drop-down menu.”
<b>PW</b>	ParlorWatch
<b>Recipe swap</b>	Switches a recipe to be fed to another recipe in FW ( <i>example:</i> swapping from the Dry Cow recipe to now feed the Close-Up recipe in its place automatically). This can be setup through a scheduled task.
<b>Ribbon</b>	A command bar that organizes the main features into a series of icons at the top of the application window.
<b>Scale adjustment</b>	Refers to changes made (by the feeder) at the scale equipment. This information is sent back to the office FW computer (i.e. pen count change, pen feed quantity change, ingredient DM %, etc.)
<b>Send Message</b>	Sends a message to the scale equipment for viewing by the feeder. ( <i>example:</i> DO NOT FEED PEN 3)
<b>Tab</b>	Contains specific information pertaining to a category from the ribbon bar.
<b>Task Scheduler</b>	Scheduling utility used to automate specific tasks to be performed in FW (i.e. DC305 imports, equipment data exports, database backups, etc.).
<b>Theme</b>	Various preset graphical views of the application. Available via the Application Menu option.
<b>Zone</b>	Allows a way to designate specific pens or equipment to a specific area. ( <i>example:</i> Pens in different zones are not permitted to be fed together on the same load).



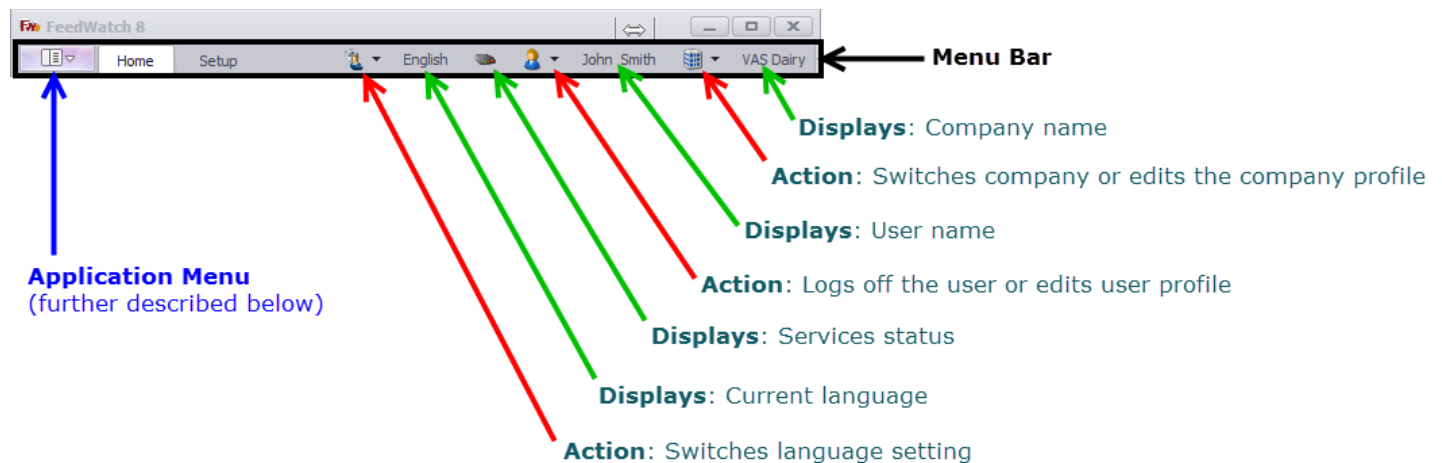
## FEEDWATCH VERSION COMPARISON

	FW Version 2	FW Version 7	FW Version 8
<b>FEEDWATCH INTERFACE</b>			
“Fixed” screen layout	•		
Customizable screen layout		•	•
Column editing/removal			•
Conditional Formatting			•
Advanced filtering			•
<b>INVENTORY MANAGEMENT</b>			
FIFO cost	•	•	•
Contracts	•	•	•
Transaction posting		•	
“Live” running totals			•
Existing transaction modification			•
Inventory shrink entries			•
<b>INGREDIENTS</b>			
Nutrient chemistry tracking		•	•
Fixed book reference chemistries		•	•
Customizable book reference chemistries			•
<b>RECIPES</b>			
Alternate recipes	•	•	•
Recipe density factor control		•	•
Ration chemistry monitoring		•	•
Alternate recipe enhancements			•
<b>FEEDING</b>			
Fixed loads	•		
Load mix timers	•	•	•
Ingredient mix timers		•	•
Dynamic load capable		•	•
Override/max & balance loads		•	•
Detailed feeding schedule analysis			•
View amt “owed vs. feed” in the schedule			•
<b>COMMUNICATION</b>			
COM services – stand alone	•		
COM services – available via FeedWatch		•	•
Ability to send message to equipment			•
<b>DC305 DATA</b>			
Pen count imports	•	•	•
Pen milk weight imports		•	•
Pen data integration			•
Animal data integration			•
Dual herd code importing			•
<b>REPORTS</b>			
Auto report printing	•	•	•
Auto report emailing		•	•
Advanced custom reports		•	•
Interactive report creation			•
<b>MIXER EQUIPMENT</b>			
GSE 5500 only	•		
GSE 5500/AWTX 3060/MD 7200		•	•
<b>AUTOMATION FEATURES</b>			
Micro Ingredient Machine integration		•	•
PLC communication			•

# FEEDWATCH GRAPHIC INTERFACE

## MENU BAR

The **Menu Bar** displays basic information and settings at the top of the FeedWatch application. Items that are a “display” item simply show the results of an “action” item.



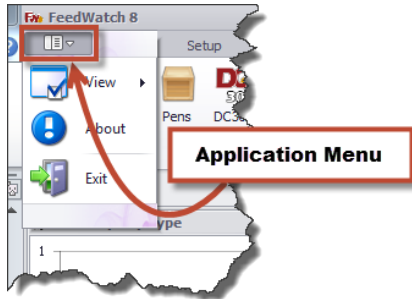


---

## APPLICATION MENU OPTIONS

The application menu is used to change FeedWatch view options, review information about the program, and/or exit the application.

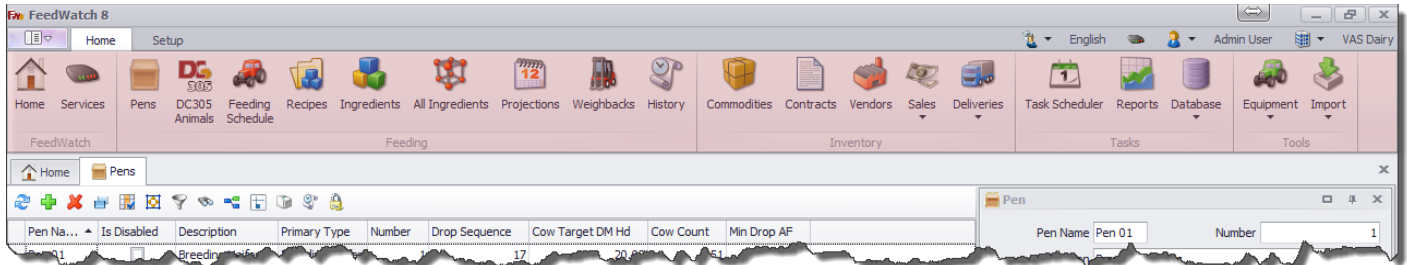
- **Application menu > View**
  - Used to change “theme” (i.e. graphical view of the application)
  - Used to change orientation of the ribbon bar



## MAIN RIBBON BAR

The ribbon bar organizes the main application features into a series of icons available on the main application window.

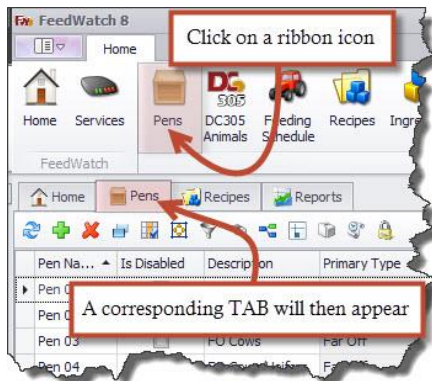
- The ribbon bar is used to access most of the information in FeedWatch.
- The icons in the ribbon bar are “grouped” according to a specific category (i.e. Feeding, Inventory, Tasks, Tools, etc.).
- The ribbon bar can be arranged horizontally or vertically across the FeedWatch screen.



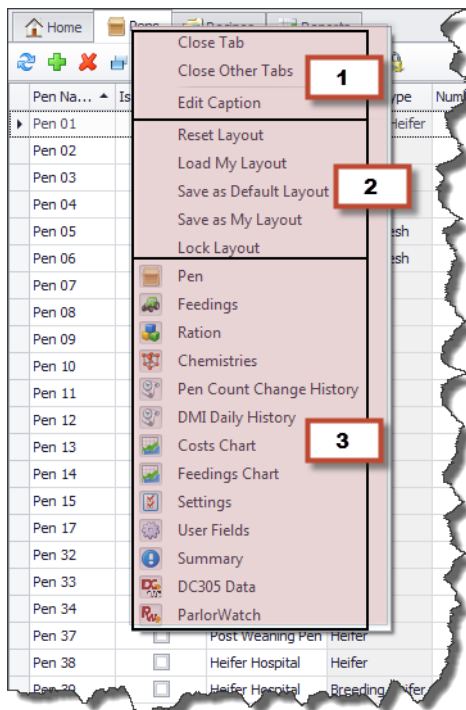
## TABS

Tabs contain specific information pertaining to an icon from the ribbon bar.

- Once an icon from the ribbon bar is picked, a corresponding tab will appear.
- Once a tab is picked, all the remaining information on the screen will update per the tab selected.
- All tabs will remain on the screen while the FeedWatch application is open.
- Each time the FeedWatch application is launched, the “Home” tab is will be visible (by default).



- When RIGHT-clicking on a tab that is currently open, a fly-out menu will appear (shown below).
- There are 3 main sections of the fly-out menu.
  - #1 – Will provide options to close the tab, close all other opens tabs, and an option to rename the tab heading.
  - #2 – Provides options to reset, load, save, and lock layouts. Layouts are discussed in more detail later in this manual.
  - #3 – The bottom portion of the fly-out menu shows all of the available panels (for that tab only). Notice that when a panel is open on the screen, the corresponding icon will show a small square around it. If the panel is NOT open on the screen, the square will not be present around the icon.



**TIP:** If you are looking for a specific box or information on the FeedWatch screen and cannot locate it. The information may be accessible via a tab. RIGHT-CLICK on the applicable TAB to view its fly-out menu options.

## LAYOUTS

A layout is a specific arrangement of information/data on the FeedWatch screen. Custom layouts can be created, saved, and/or restored. There are 2 different layout “types” in FeedWatch Version 8.

#1 – **Grid Layout**

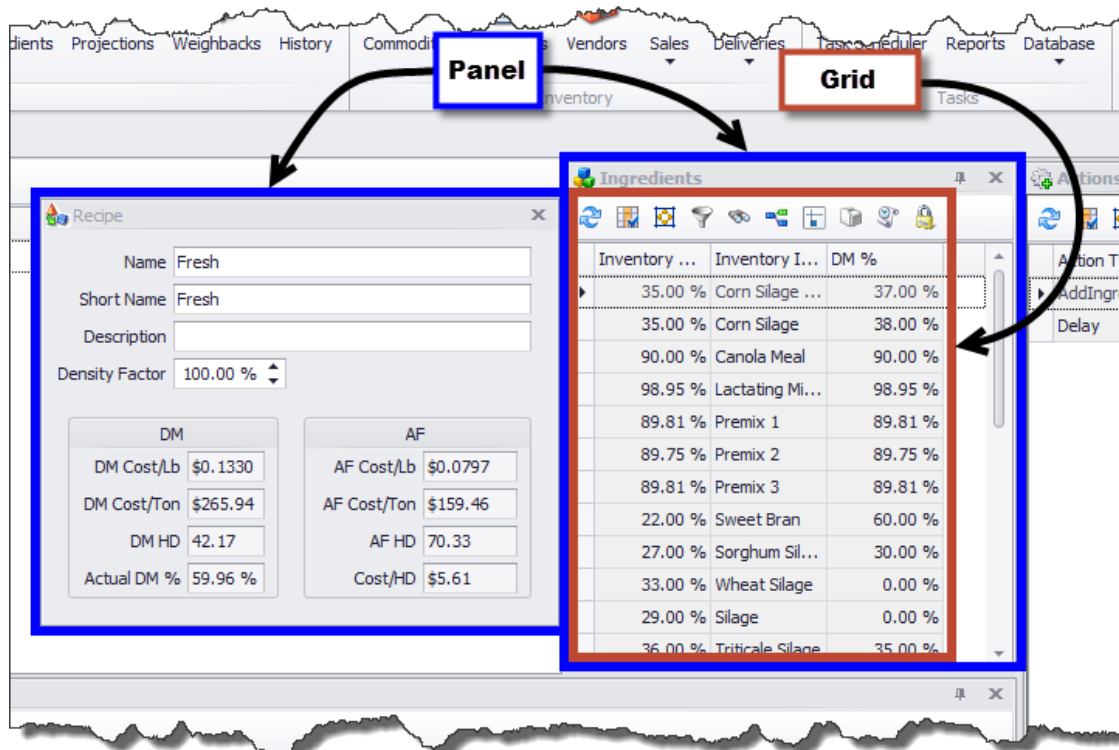
#2 – **Panel Layout**

### WHAT IS A GRID?

A **grid** in FeedWatch is a table-like display showing a series of rows and columns of information.

### WHAT IS A PANEL?

A **panel** in FeedWatch is a box of information relating to its parent tab. (i.e. Feedings, Ration, Settings, etc. are all panels of information relating to the PENS tab)



*Example: Panel and Grid information found under the Recipes tab*

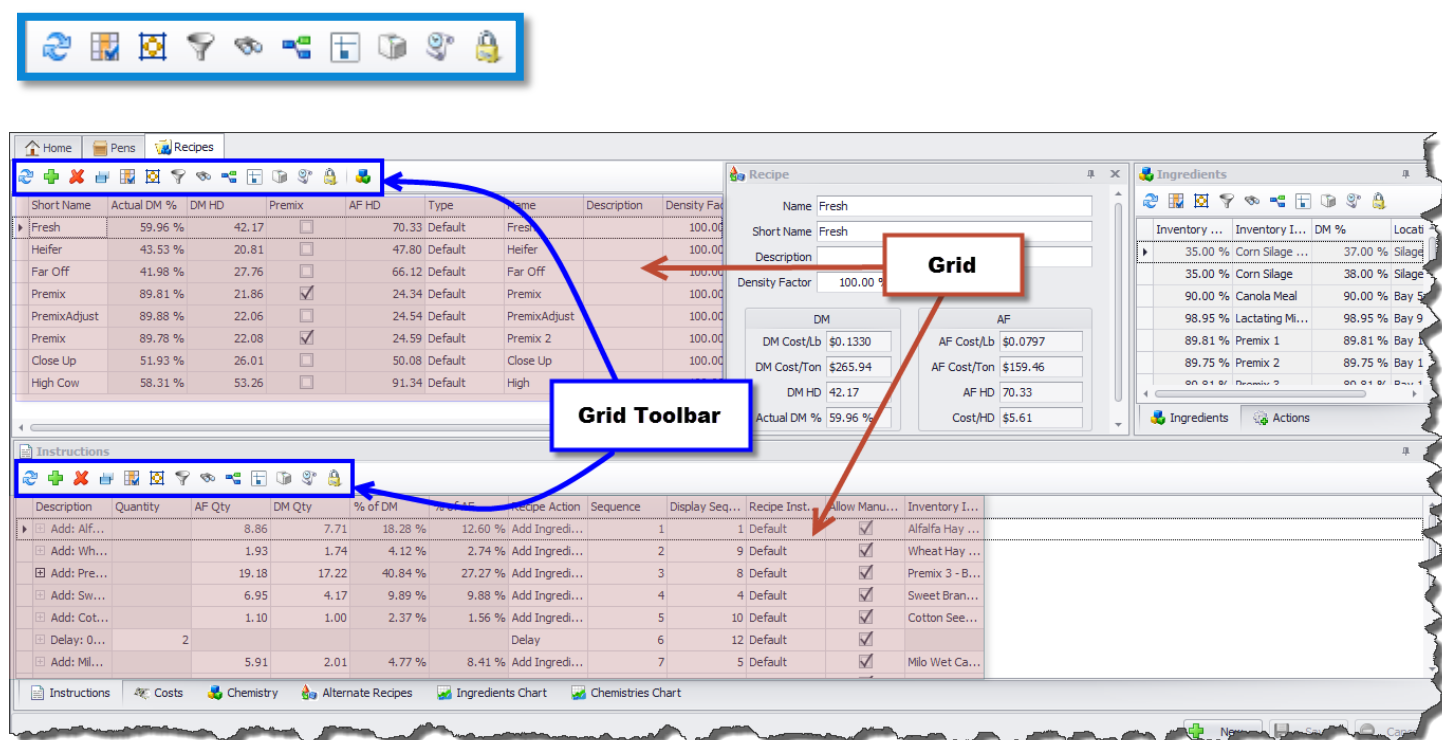
## GRID LAYOUT

Grid information can be arranged as desired (i.e. moving a column, removing a column, sorting a column, etc.). After modifications are made, a **grid layout** can be saved. A saved grid layout can then be restored at a later time.

For more information on grids, refer to the beginning of the “Layouts” section in this manual.

## GRID TOOLBAR

Each grid will contain a toolbar. Grid toolbars will contain icons specific for that grid.

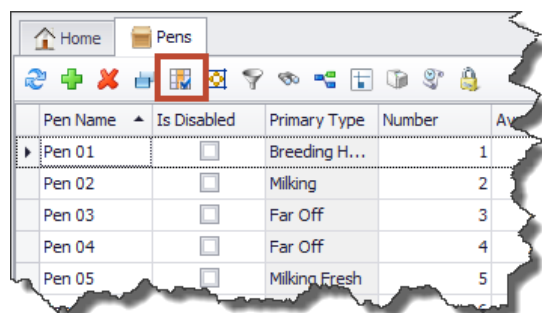


Example: Grid and Grid Toolbars found under the Recipes tab

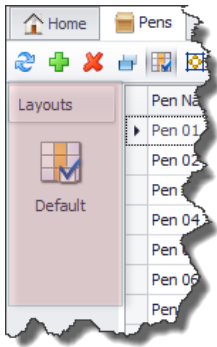
## SAVE A GRID LAYOUT

After the desired grid modifications are made, follow the steps below to save a grid layout.

1. Click on the **Layouts** icon from the grid toolbar.

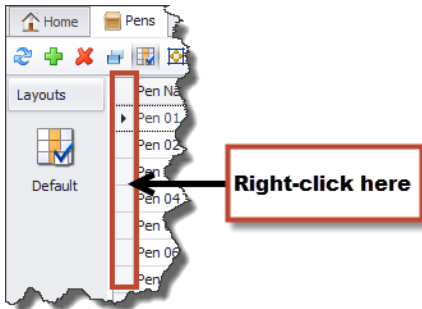


A **Layouts** box will then appear on the left side.

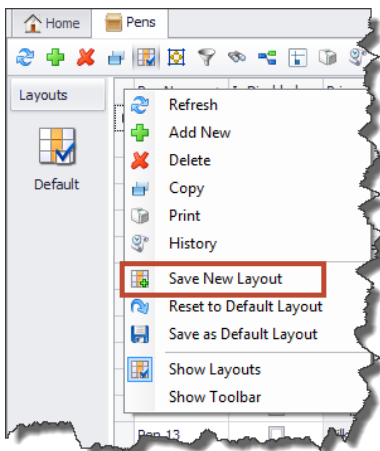


**TIP:** If the Layouts box is already visible, clicking the Layouts icon will hide the Layouts box from view. Click the Layouts icon again to redisplay the Layouts box.

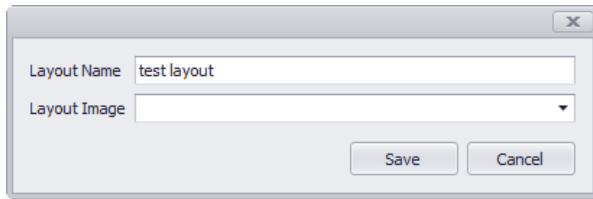
2. RIGHT-click anywhere in the space noted below.



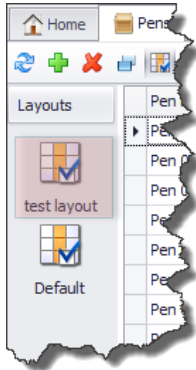
3. A fly-out menu will appear. Click on **Save New Layout**.



4. In the box that appears, enter the desired **Layout Name**. Select a **Layout Image** (optional). Click on **Save**.



The new layout will then appear on the Layout box. To restore a saved grid layout, simply click on a layout from the list.



**NOTE:** The “Layouts” box is **ONLY** used for a **Grid Layout**. Working with **Panel Layouts** is discussed in the next section of this manual.

## PANEL LAYOUT

Panels can be arranged as desired (i.e. moving a panel, resizing a panel, closing a panel, etc.). A panel is always linked to its parent tab. After panel modifications are made, a **panel layout** can be saved. A saved panel layout can then be restored at a later time. To access the options for saving, resetting, loading, or locking a panel layout, simply RIGHT-click on the applicable tab at the top of the application.

*For more information on panels, refer to the beginning of the “Layouts” section in this manual.*

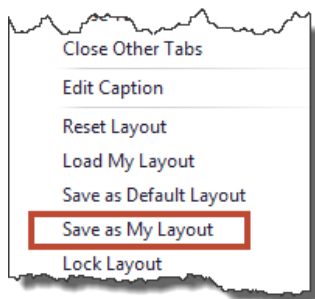
The following options are available for use with panel layouts:

- Reset Layout
- Load My Layout
- Save as Default Layout
- Save as My Layout
- Lock Layout

## SAVE A PANEL LAYOUT

After the desired panel modifications are made, follow the steps below to save a panel layout.

1. RIGHT-click on the appropriate tab (i.e. Pens, Recipes, Ingredient, etc.).
2. A fly-out menu will appear. Click on **Save as My Layout**.



**TIP:** If you are looking for a specific panel of information and cannot find it (example: you are looking for the Feedings panel on the Pens tab), RIGHT-CLICK on the applicable TAB and click “Reset Layout” or “Load My Layout.” If the panel still does not appear on your screen, then RIGHT-CLICK on the tab again. A fly-out menu will appear and the missing panel should be listed. If so, LEFT-CLICK on it to open the panel.

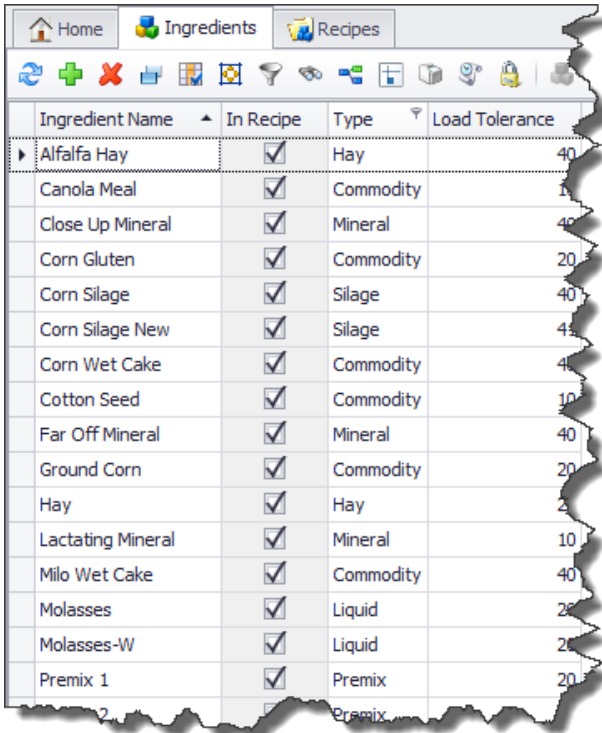


## GROUPING

In FeedWatch Version 8, a powerful and user friendly feature was implemented known as **grouping**. Grouping is a method used to sort a list based of a predefined category or item.

### SETUP A GROUP PANEL

Before a group is setup, a list of items may appear as shown below where ALL the items in that tab are listed. In this example, all the ingredients in FeedWatch are listed.



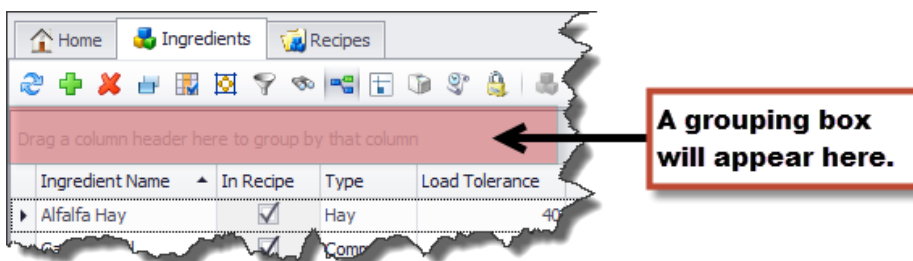
Ingredient Name	In Recipe	Type	Load Tolerance
Alfalfa Hay	<input checked="" type="checkbox"/>	Hay	40
Canola Meal	<input checked="" type="checkbox"/>	Commodity	1
Close Up Mineral	<input checked="" type="checkbox"/>	Mineral	40
Corn Gluten	<input checked="" type="checkbox"/>	Commodity	20
Corn Silage	<input checked="" type="checkbox"/>	Silage	40
Corn Silage New	<input checked="" type="checkbox"/>	Silage	4
Corn Wet Cake	<input checked="" type="checkbox"/>	Commodity	4
Cotton Seed	<input checked="" type="checkbox"/>	Commodity	10
Far Off Mineral	<input checked="" type="checkbox"/>	Mineral	40
Ground Corn	<input checked="" type="checkbox"/>	Commodity	20
Hay	<input checked="" type="checkbox"/>	Hay	2
Lactating Mineral	<input checked="" type="checkbox"/>	Mineral	10
Milo Wet Cake	<input checked="" type="checkbox"/>	Commodity	40
Molasses	<input checked="" type="checkbox"/>	Liquid	28
Molasses-W	<input checked="" type="checkbox"/>	Liquid	2
Premix 1	<input checked="" type="checkbox"/>	Premix	20

Follow the steps noted below to set up a “grouping” based on ingredient type.

1. From the Ingredients toolbar, click on the **Group Panel** icon.



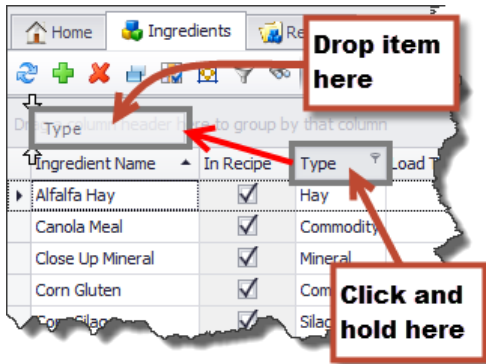
A small box will appear just below the grid toolbar (as shown below). The box will be labeled, “Drag a column header here to group by that column.”



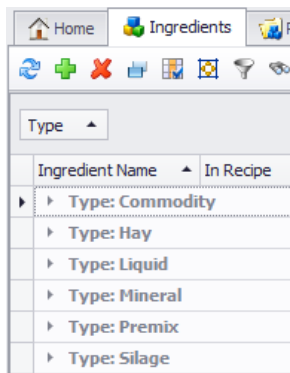
2. Locate the column that you would like to group the list by and then drag and drop the column to the box.



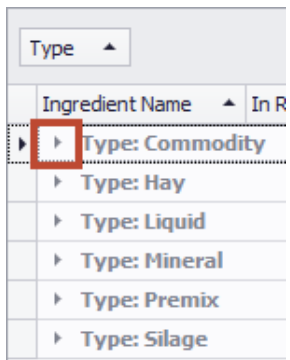
**TIP:** To “drag and drop”.....left click and **HOLD** (do not release the left mouse button) on the item. Move (i.e. drag) the item to the desired location. Then, release the left mouse button.



The list is now grouped.



- Click on the arrow to the left of the grouped name to expand the grouped list (as shown below).



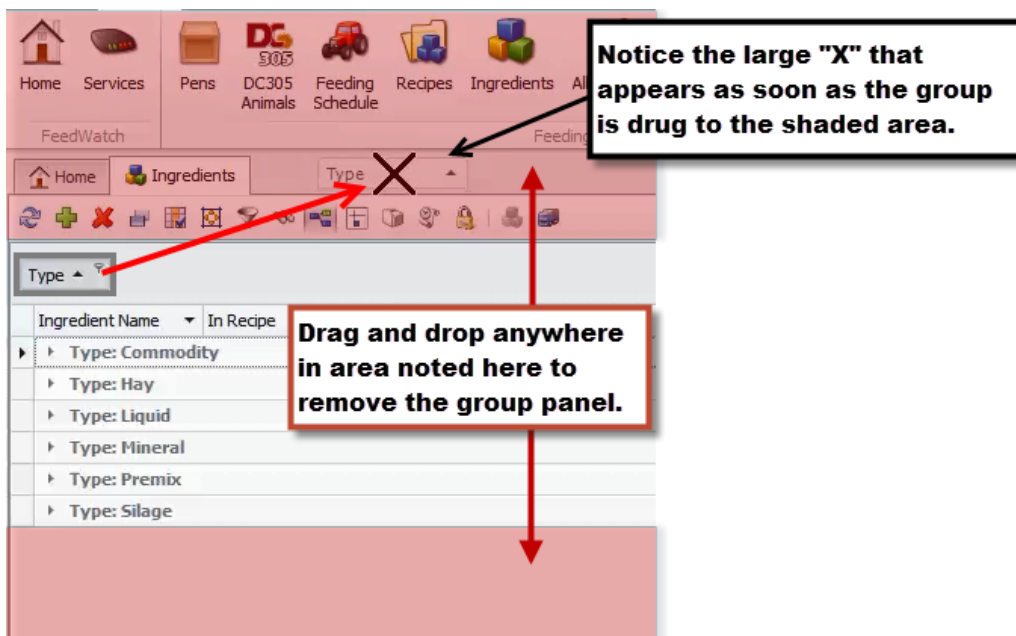
The group will now be expanded to show the items contained in the group.

Type	Ingredient Name	In Recipe	Load Tolerance
Type: Commodity			
	Canola Meal	<input checked="" type="checkbox"/>	10
	Corn Gluten	<input checked="" type="checkbox"/>	20
	Corn Wet Cake	<input checked="" type="checkbox"/>	40
	Cotton Seed	<input checked="" type="checkbox"/>	10
	Ground Corn	<input checked="" type="checkbox"/>	20
	Milo Wet Cake	<input checked="" type="checkbox"/>	40
	Sweet Bran	<input checked="" type="checkbox"/>	20
Type: Hay			
Type: Liquid			
Type: Mineral			
Type: Premix			
Type: Silage			

## REMOVING A GROUP PANEL

Drag and drop the group panel item to remove it.

1. Left-click and hold on the group panel item.
2. Drag the item anywhere in the area noted below.
3. Release the left-mouse button.



The group panel will now be removed.

Home

Ingredients

Drag a column header here to group by that column

Ingredient Name	In Recipe	Load Tolerance
Alfalfa Hay	<input checked="" type="checkbox"/>	40
Canola Meal	<input checked="" type="checkbox"/>	10
Close Up Mineral	<input checked="" type="checkbox"/>	
Corn Gluten	<input checked="" type="checkbox"/>	20
Corn Silage	<input checked="" type="checkbox"/>	40



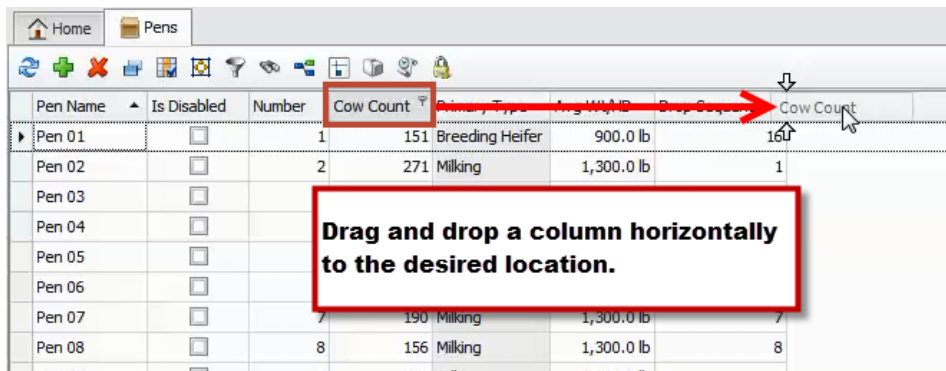
**TIP:** Instead of removing the group panel, simply drag the group back to the column header area in the grid. Doing so will then place the item back as a column rather than removing the item from the grid.

## COLUMN MODIFICATIONS

All grids of information in FeedWatch contain columns. In FeedWatch Version 8, columns are highly customizable to allow the user the ultimate ability to customize FeedWatch to their exact preferences.

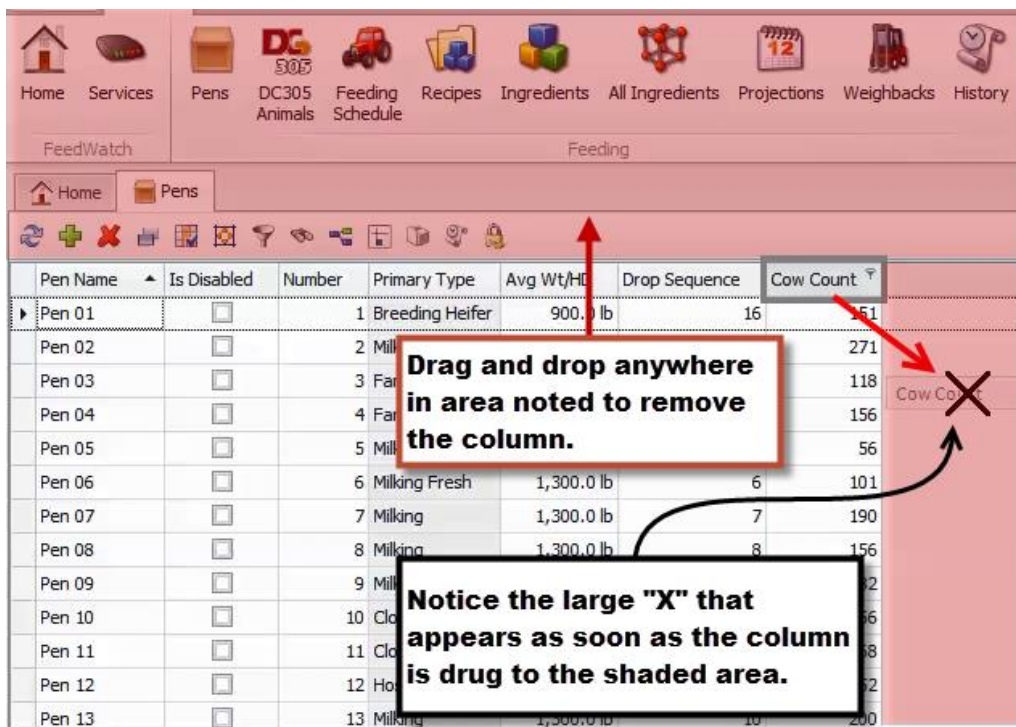
### MOVING A COLUMN

1. Left-click and hold on the column header that is desired to move.
2. Drag the column horizontally.
3. Once the column is in the desired position, release the left-mouse button.



### REMOVING A COLUMN FROM A GRID

1. Left-click and hold on the column that you would like to remove from the grid.
2. Drag the item anywhere in the area noted below.
3. Release the left-mouse button.



The column will now be removed.

Home

Pens

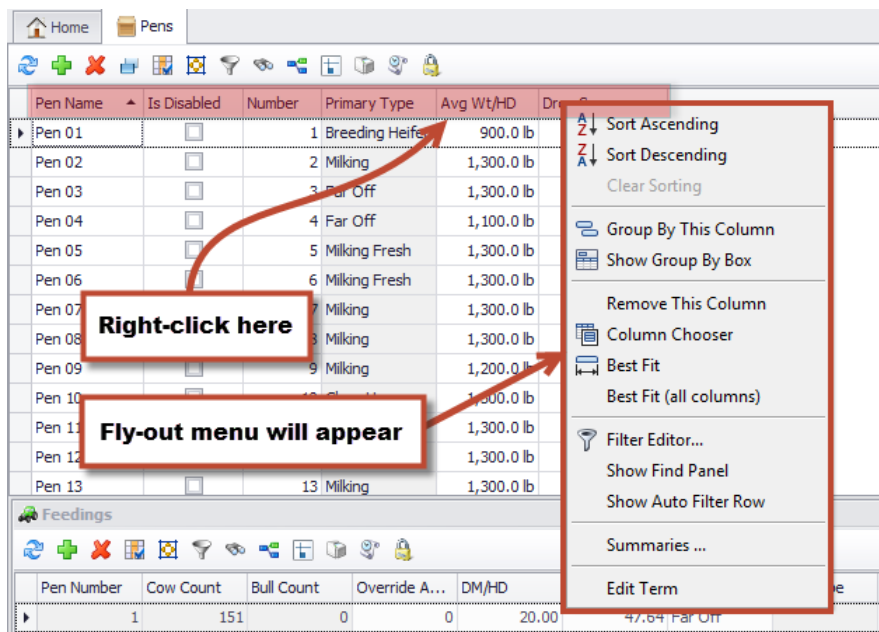
Pen Name ▲	Is Disabled	Number	Primary Type	Avg Wt/HD	Drop Sequence
Pen 01	<input type="checkbox"/>	1	Breeding Heifer	900.0 lb	16
Pen 02	<input type="checkbox"/>	2	Milking	1,300.0 lb	1
Pen 03	<input type="checkbox"/>	3	Far Off	1,300.0 lb	3
Pen 04	<input type="checkbox"/>	4	Far Off	1,100.0 lb	2
Pen 05	<input type="checkbox"/>	5	Milking Fresh	1,300.0 lb	5
Pen 06	<input type="checkbox"/>	6	Milking Fresh	1,300.0 lb	6
Pen 07	<input type="checkbox"/>	7	Milking	1,300.0 lb	7
Pen 08	<input type="checkbox"/>	8	Milking	1,300.0 lb	8
Pen 09	<input type="checkbox"/>	9	Milking	1,200.0 lb	9
Pen 10	<input type="checkbox"/>	10	Close Up	1,300.0 lb	15
Pen 11	<input type="checkbox"/>	11	Close Up	1,300.0 lb	14



**TIP:** Another method can be used to remove a column from a grid. Right-click on the column header that is to be removed and pick the “Remove This Column” option.

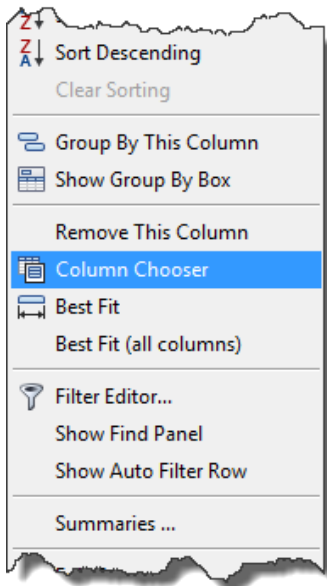
## COLUMN HEADER OPTIONS

For additional ways to modify the look of a grid, simply RIGHT-click on any column header (shown below) for additional options.



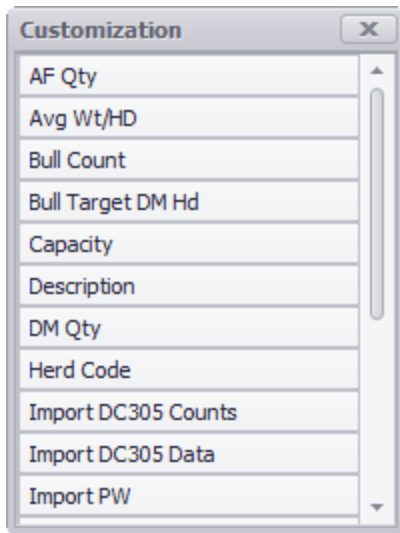
## ADDING A COLUMN TO A GRID

1. RIGHT-click on a column header.
2. From the fly-out menu, click **Column Chooser**.



A Customization box will appear.

3. Find the desired column from the list. There are different 3 ways to add a column to a grid:
  - a. Double click the item from the list.
  - b. Drag and drop the item to the grid.
  - c. RIGHT-click on the item and pick "Show This Column."



Example: Customization box via the Column Chooser

## ADDING A FOOTER TO A GRID COLUMN

By default, column summary information is not populated for a grid. To quickly add summary information (i.e. sum, min, max, count, avg), follow the steps below.

1. From the grid toolbar, click on the **Footer Panel** icon.



A footer box will appear at the bottom of the grid.

	Inventory Item Location	AF Qty	DM Qty	Recipe
▶	Feeder Hay - Unknown	10.50	9.35	Add Ing
+	Straw - Unknown	4.00	3.60	Add Ing
+	Grass Silage - Unknown	4.25	1.70	Add Ing
+	Ground Corn - Unknown	0.20	0.17	Add Ing
+	Oat Silage - Unknown	10.91	6.00	Add Ing

**A Footer will appear**

2. Locate the column that you would like to add summary information to.
3. In that column, RIGHT-click.
4. A fly-out menu will appear. Pick the option desired.



Inventory Item Location	AF Qty	DM Qty	Recipe Action
Feeder Hay - Unknown	10.50	9.35	Add In
Straw - Unknown	4.00	3.60	Add In
Grass Silage - Unknown	4.25	1.70	Add In
Ground Corn - Unknown	0.20	0.17	Add In
Oat Silage - Unknown	10.91	6.00	Add In

Σ

Sum

↶

Min

↷

Max

N

Count

Σ/n

Average

✓

None

A summary field will then be added to the footer in the column selected.

Inventory Item Location	AF Qty	DM Qty	Recipe
Feeder Hay - Unknown	10.50	9.35	Add In
Straw - Unknown	4.00	3.60	Add In
Grass Silage - Unknown	4.25	1.70	Add In
Ground Corn - Unknown	0.20	0.17	Add In
Oat Silage - Unknown	10.91	6.00	Add In
SUM=29.86			

- If desired, repeat steps to add summary information to another column.

## MORE CUSTOMIZATION FEATURES

FeedWatch Version 8 is loaded with interface customization options. Some of the more commonly used features will be noted below. There are many more interface customization options not identified in this manual but that are available in FeedWatch.



**TIP:** *Many user navigation options are available via Right-Clicking. Explore Right-Clicking throughout the FeedWatch application to view more options.*

## PANEL MODIFICATIONS

Similar to other Office programs, many graphical modifications can be made to panels (i.e. boxes) of information. Some of these modification options in FeedWatch include:

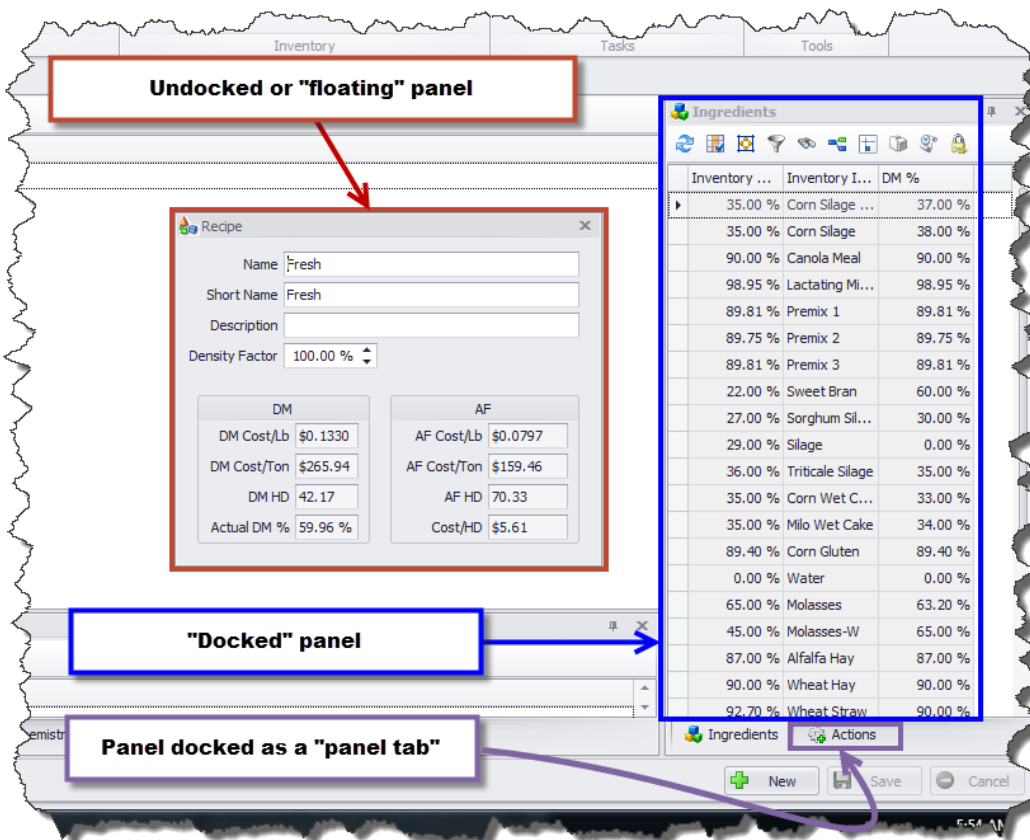
- Resizing
- Docking
- Undocking
- Floating
- Docking as a panel tab



**TIP:** *After a modification to a panel is made you can save the layout for future use. Refer to the “Layouts” section for more information on panel layouts.*

See below for an example of panels that are either *floating*, *docked*, or a *panel tab*.

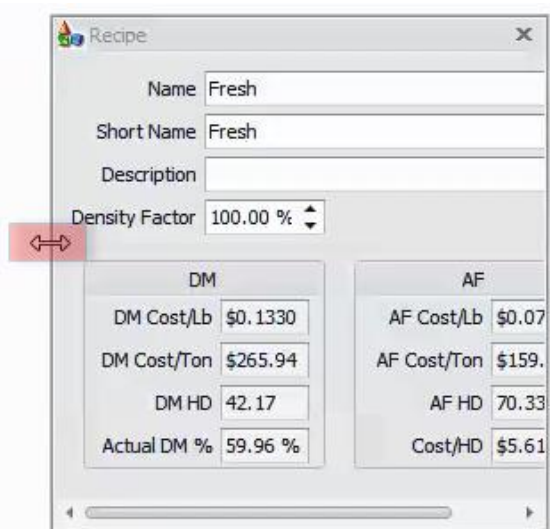
- **Floating panels** – are not connected to other panels
- **Docked panels** – are connected to other panels and show the information
- **Panel tab** – are docked panels but do not show the information (because another panel is currently displaying its information)



## RESIZING

Both docked and undocked (i.e. floating) panels can be resized.

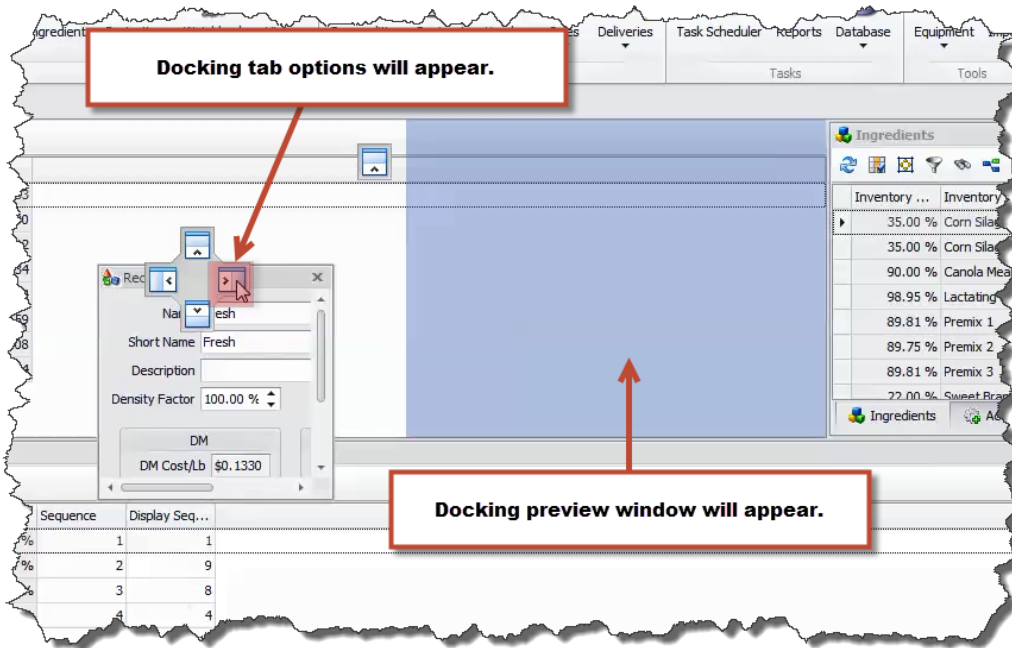
1. Hover your mouse pointer over the side of a panel edge until a double ended arrow appears.
2. Left-click and hold the side of the panel.
3. Drag to desired position.
4. Release button to complete the resizing.



## DOCKING

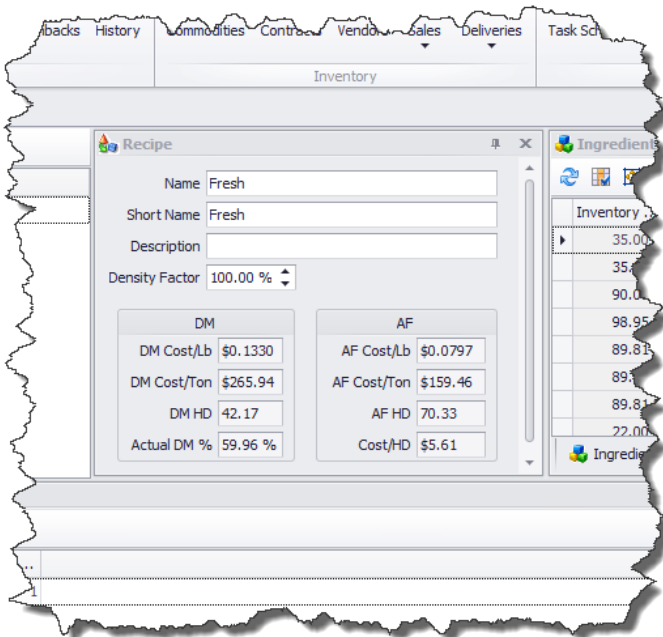
To “dock” a floating panel, follow the steps below.

1. Left-click and hold on the title bar of the panel that is desired to be docked.
2. Drag panel until the docking tabs are displayed.
3. Move mouse pointer to desired tab location. A preview window will appear displaying where the panel will be docked (shown below).



4. If the preview window appears in the location desired, release the left mouse button.

The panel is now docked.





**TIP:** *Another method can be used to dock a panel. Right-click on the panel title bar and pick “Dock.”*

## UNDocking

---

1. Left-click and hold on the title bar of the panel that is desired to be “undocked.”
2. Drag panel until the docking tabs are displayed.
3. Release button to complete the undocking.



**NOTE:** *When undocking a panel, the panel can be set to be floating or docked immediately to another location.*

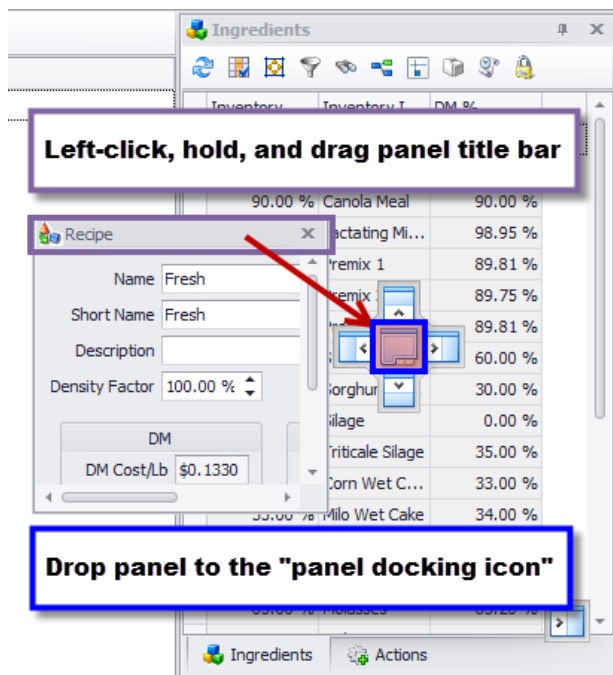


**TIP:** *Other methods that can be used to undock a panel include:*  
*\* RIGHT-click on the panel title bar and pick “Float.”*  
*\*Double-left-click on the panel title bar.*

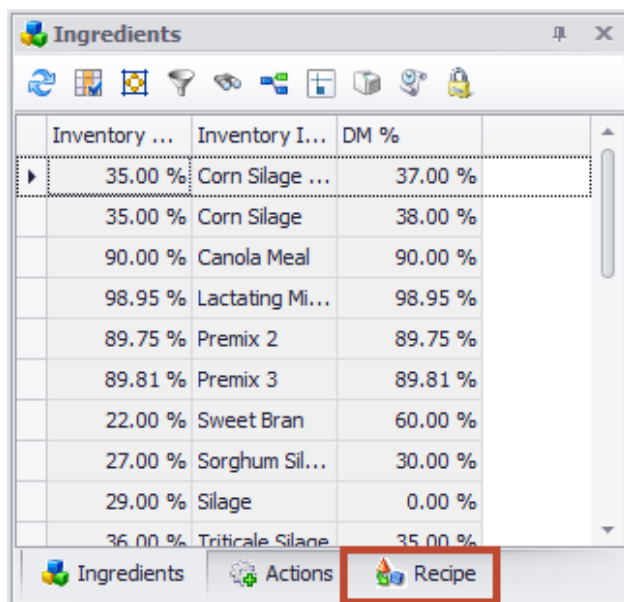
## DOCKING AS A PANEL TAB

---

1. Left-click and hold on the title bar of the panel that is desired to be docked as a tab.
2. Drag panel until the docking tabs are displayed.
3. Hover over the docking tab icon.
4. Then, release button to complete the docking.



The panel will now be docked as a panel tab.



## CONDITIONAL FORMATTING

New to FeedWatch Version 8 is the ability to apply conditional formatting to any grid of information in FeedWatch.

**Example:** (formatting automatically changes when DM qty is below 45 lbs.)

Pen Name	Cow Target DM Hd
Pen 01	48.33
Pen 02	54.00
Pen 03	39.30
Pen 04	45.60
Pen 05	51.00
Pen 06	42.60
Pen 07	44.60

In the example below, we will apply conditional formatting to highlight when the inventory balances are getting low.

1. Click on the **All Ingredients** icon from the ribbon bar.



Notice that the information in the grid is displayed without any formatting (i.e. no highlighting, font is normal, etc.).

Settings	Quantities On Hand			
Inventory Item	AF Qty (Lb)	AF Qty (Ton)	DM Qty (Lb)	DM Qty (Ton)
Alfalfa Hay	65,335	32.67	58,802	29.40
Canola Meal	6,745	3.37	6,071	3.04
Corn Gluten	22,365	11.18	19,905	9.95
Corn Silage	1,000,266	500.13	350,093	175.05
Cotton Seed	1,254	0.63	1,129	0.56
Ground Corn	9,561	4.78	8,455	4.06

2. Click on the **Conditional Formatting** icon from the All Ingredients toolbar.



A Conditional Formatting dialog box will appear.

Conditional Formatting

+

×

Column Name	Condition	Value	Value2	Apply To Row

3. Enter the formatting details that you would like to apply to this grid.

In this example, we will apply formatting to the **AF Qty** field.

The formatting that we will apply is to highlight every time the following happens:

- Highlight “blue” when the inventory balance goes below 10,000
- Highlight “red” when the inventory balance goes below 5,000



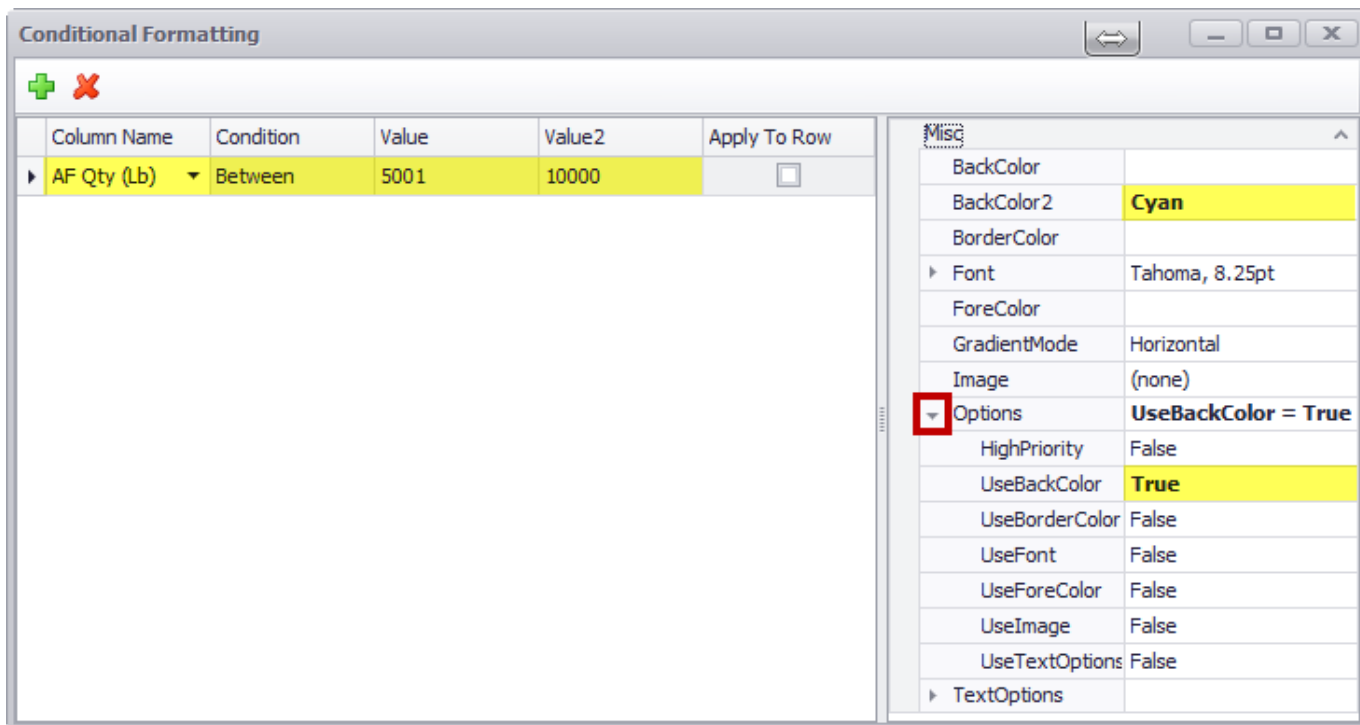
**TIP:** If you are using a dark color when highlighting a field, you may also want to change the text color as well. Doing so will ensure that the text is more visible with the darker background color.

4. Click the **New** icon from the Conditional Formatting dialog box.



5. Enter the information as shown below.

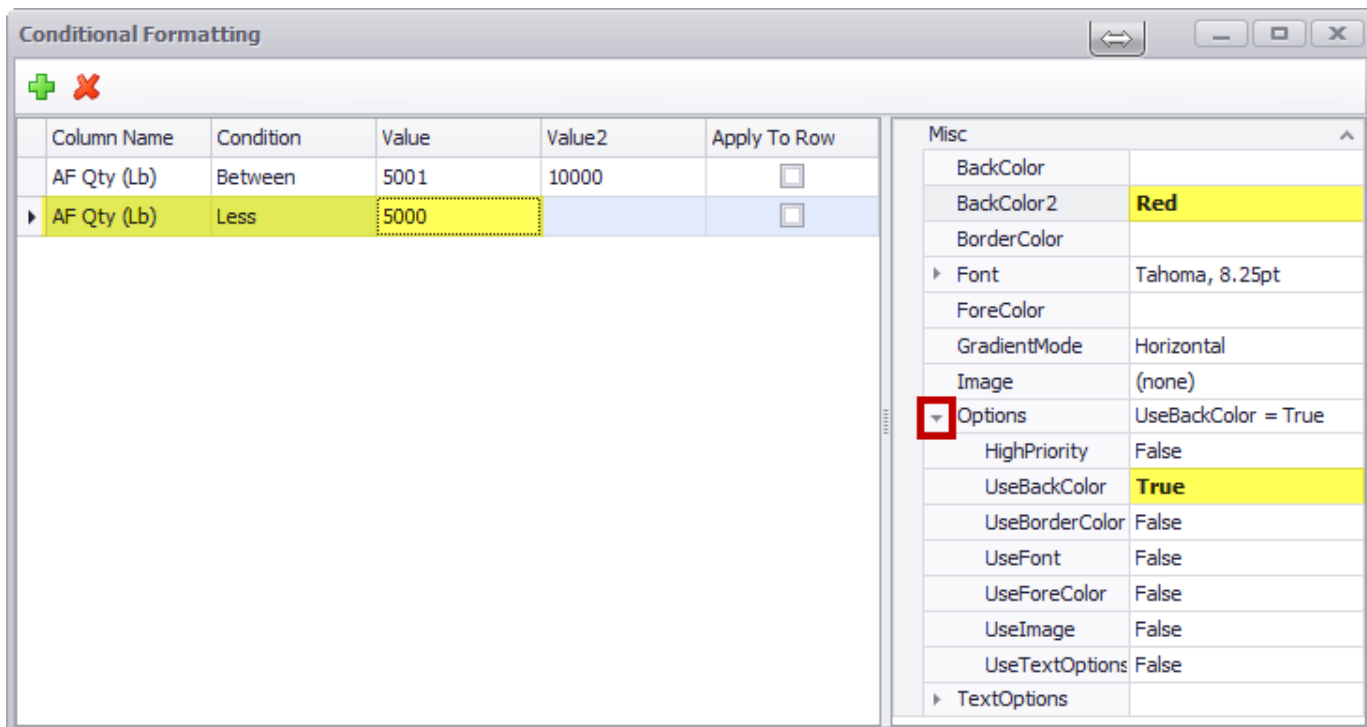




6. Click the **New** icon again from the Conditional Formatting dialog box to add another row of formatting options.



7. Enter the information as shown below.



8. After all formatting options are entered; you can close the Conditional Formatting dialog box.

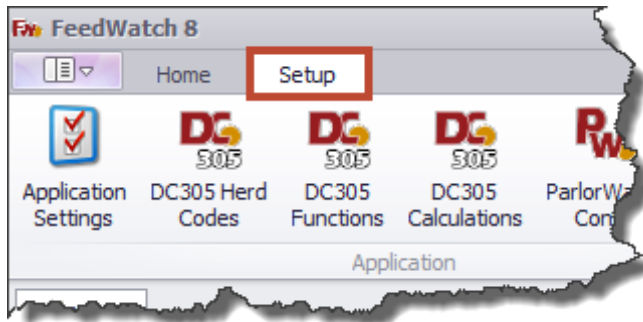
The grid will now be updated based on the conditional formatting that was applied.

Settings		Quantities On Hand			
Inventory Item ▲	DM %	AF Qty (Lb)	AF Qty (Ton)	DM Qty (Lb)	DM Qty (Ton)
Alfalfa Hay	90.00 %	65,335	32.67	58,802	29.40
Canola Meal	90.00 %	6,745	3.37	6,071	3.04
Corn Gluten	89.00 %	22,365	11.18	19,905	9.95
Corn Silage	35.00 %	1,000,266	500.13	350,093	175.05
Cotton Seed	90.00 %	1,254	0.63	1,129	0.56
Ground Corn	85.00 %	9,561	4.78	8,127	4.06

# SETUP SETTINGS

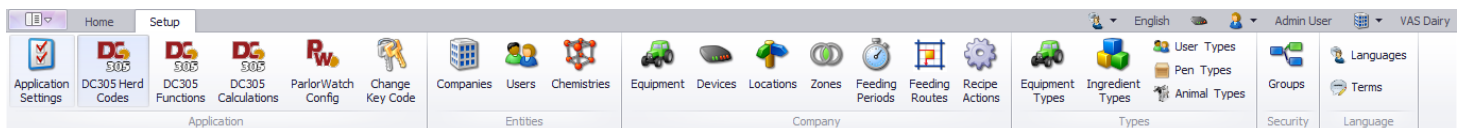
## SETUP OVERVIEW

The setup settings in FeedWatch are used to control the background operation of FeedWatch. For simplification, access to any setup option is separated from the “main” FeedWatch ribbon bar (discussed earlier in this manual). The **Setup** utility is accessed at the top of the FeedWatch screen.



## SETUP RIBBON BAR

After clicking the Setup option, notice that the ribbon bar changes. All options on the ribbon bar will now be icons specific for the FeedWatch setup.



The ribbon bar icons are grouped together according to the following categories.

- Application
- Entities
- Company
- Types
- Security
- Language



**TIP:** To go back to the main ribbon bar, simply click **Home** at the top of the FeedWatch screen.

# INGREDIENTS

## INGREDIENTS OVERVIEW

There are 3 basics that need to be setup and monitored to feed animals using FeedWatch:

- **INGREDIENTS** – Ingredients inputted
- RECIPES – Ingredients assigned to recipes
- PENS – Recipes assigned to pens



## CREATING AN INGREDIENT

1. Click on the **Ingredients** icon from the ribbon bar.



2. Click on the **New** icon from the Ingredient toolbar.



3. Navigate to the **Ingredient** panel. Enter the necessary information.

<b>Ingredient Name</b>	Name of the ingredient as desired (50 character limit).
<b>Short Name</b>	Uses the first 12 characters from the "Name" field.
<b>Type</b>	Type or category of ingredient. Adding or changing ingredient Types are made in the FeedWatch Setup.
<b>Description</b>	Allows ingredient details to be entered (optional).
<b>Allow Weighback</b>	Checked = Permits ingredient to be picked up as a Weighback/Cleanup ingredient from a pen.
<b>Allow Manual Load</b>	Checked = Permits ingredient to be fed directly to a pen or multiple pens as a batch load.
<b>Load Tolerance</b>	Establishes a range for permissible "loading error shortage." <i>Example: Load Tolerance</i> is set to 20 lbs. for Corn Silage. If 1000 lbs. is the targeted amount of Corn Silage for a load, when 980 lbs. is loaded and weight settles >>> the system will then advance to the next ingredient in the recipe.
<b>Reference</b>	Enters "book value" ingredient chemistries (i.e. nutrient values). These values are used for informational purposes and will not influence the amount or type of feed being fed to a pen.
<b>Made by Recipe</b>	If the ingredient is made on the dairy via a premix, the <i>Made by Recipe</i> setting will establish what recipe (i.e. premix) will create the ingredient. If the ingredient is not created via a premix, than simply leave this option blank.

\*Items noted in pink are required.

4. Navigate to the **Locations** panel.
5. Click on the **New** icon from the Locations toolbar.



6. Enter the necessary information in the Locations panel.

<b>Location</b>	Every ingredient will need at least one "location" identified. Adding or changing ingredient Locations are made in the FeedWatch Setup.
<b>DM %</b>	This is where you would enter the tested ingredient DM %. This DM % field is what FeedWatch uses to create the AF figures in the system (i.e. "working" or "active" DM %).
<b>Inventory DM %</b>	This is the baseline DM % of the ingredient (at the location specified). The Inventory DM % takes into account the entire inventory of the ingredient. FeedWatch uses the Inventory DM % when calculating inventory DM quantities.
<b>Tracking Enabled</b>	*Refer to "Inventory Management" section of this manual.
<b>Tracking Start Date</b>	*Refer to "Inventory Management" section of this manual.
<b>Tracking Start Time</b>	*Refer to "Inventory Management" section of this manual.
<b>Base Costs</b>	Base cost is used if you are not tracking the inventory of the ingredient or if the balance of the ingredient is 0 or negative. Cost can be entered as....AF Cost/Ton, AF Cost/Lb, DM Cost/Ton, or DM Cost/Lb.

\*Items noted in pink are required.

Settings							Base Costs	
Inventory Item	Location	DM %	Inventory DM %	Tracking Enabled	Tracking Start Date	Tracking Start Time	AF Base Cost/Ton	DM Base Cost/Ton
Hay	Bay 1	90.00 %	90.00 %	<input type="checkbox"/>			\$250.00	\$277.78



**WARNING:** *DM % and Inventory DM % are NOT the same. Use caution to ensure you are viewing and/or modifying the correct percentage when working with DM% of an ingredient.*



**TIP:** *You only need to enter the cost once (i.e. If you enter the cost in AF, FeedWatch will calculate the DM cost for you).*

7. Navigate to the **Chemistries** panel.
8. Enter the custom chemistry values for the ingredient. Or if you entered a “Reference” option from the previous step you will notice values are entered under the Chemistries panel automatically.

\*Items noted in blue are optional.

Chemistries												
Ingredient Type	DM %	CPPct	TDNPct	NDFPct	ADFPct	Fat Pct	Ash Pct	Ca Pct	PPct	Mg Pct	KPct	
Commodity	88.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %

9. After all the ingredient information is entered, click **Save**.

## CHANGING THE DM% OF AN INGREDIENT

After an ingredient is tested and an updated DM % is obtained, follow the steps below to change the DM % of the ingredient.

1. Click on the **Ingredients** icon from the ribbon bar.



2. Navigate to the **Locations** panel.
3. Enter the updated **DM %**.

Locations								
Settings							Base Costs	
Inventory Item	Location	DM %	Inventory DM %	Tracking Enabled	Tracking Start Date	Tracking Start Time	AF Base Cost/Ton	DM Base Cost/Ton
Hay	Bay 1	88.00 %	90.00 %	<input type="checkbox"/>			\$244.44	\$277.78
Locations Chemistries Deliveries Inventory Transactions Chemistries Chart								



**WARNING:** Changing the DM % of the ingredient will automatically modify the amount of AF lbs. being fed of that ingredient.

4. Click **Save**.

## “ALL INGREDIENTS” TAB

If you would like to make modifications to several ingredients (i.e. update DM %, change cost, etc.) the Ingredients tab can be used to do so. However, a quicker way to make these modifications would be to use the **All Ingredients** tab. This tab doesn't use additional panels of information like the Ingredients tab does. Rather, the All Ingredients tab combines the information into one large grid all available directly from the tab.

- Click on the **All Ingredients** icon from the ribbon bar.



- Navigate to the ingredient that was created earlier in this manual. Enter the updated **DM %**.

Home Ingredients All Ingredients								
Settings						Base Costs		
Inventory Item	Location	DM %	Type	Made By Recipe	In Recipe	AF Base Cost/Ton	DM Base Cost/Ton	
Alfalfa Hay	On Pad	87.00 %	Hay		True	\$255.00	\$293.10	
Canola Meal	Bay 5	90.00 %	Commodity		True	\$217.40	\$241.56	
Close Up Mineral	Bags	92.14 %	Mineral		True	\$885.00	\$960.49	
Corn Gluten	Bay 10	89.40 %	Commodity		True	\$200.00	\$223.71	
Corn Silage	Silage Bay 2	38.00 %	Silage		True	\$0.00	\$0.00	
Corn Silage New	Silage Bay 2	37.00 %	Silage		True	\$0.00	\$0.00	
Corn Wet Cake	Bay 3	33.00 %	Commodity		True	\$85.00	\$257.58	
Cotton Seed	Bay 4	91.00 %	Commodity		True	\$360.00	\$395.60	
Far Off Mineral	Bags	96.12 %	Mineral		True	\$528.00	\$549.31	
Ground Corn	Bay 4	78.00 %	Commodity		True	\$288.07	\$369.32	
Hay	Bay 1	90.00 %	Commodity		False	\$250.00	\$277.78	
Lactating Mineral	Bay 9	98.95 %	Mineral		True	\$398.00	\$402.22	
Milo Wet Cake	Bay 3	34.00 %	Commodity		True	\$116.00	\$341.18	
Molasses	Boom	63.20 %	Liquid		True	\$205.00	\$324.37	
Molasses-W	Boom	65.00 %	Liquid		True	\$131.80	\$202.77	
Premix 1	Bay 1	89.81 %	Premix	Premix	True	\$274.32	\$305.44	
Premix 2	Bay 1	89.75 %	Premix	Premix	True	\$274.32	\$305.44	

- To update another ingredient, simply press [Enter] on your keyboard or left-click in the field that you would like to change.
- Click **Save**.



## DELETING AN INGREDIENT



**WARNING:** Prior to deleting an ingredient, make sure the ingredient isn't used in any recipe or premix.

1. Click on the **Ingredients** icon from the ribbon bar.



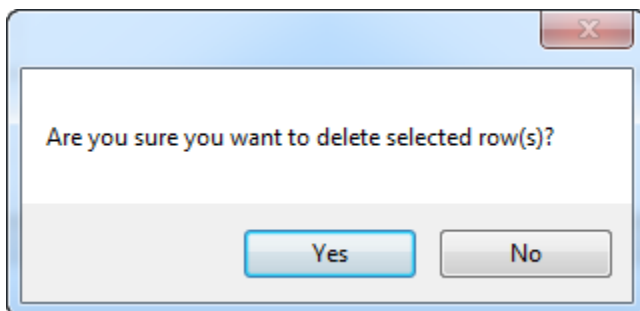
2. Click on the ingredient you intend on deleting.

Ingredient Name	Short Name	Description	In Recipe	Load Tolerance	Allow Manual Load	Allow Weighback	Type	Made By Recipe
Corn Gluten	Corn Gluten		<input checked="" type="checkbox"/>	20	<input type="checkbox"/>	<input type="checkbox"/>	Commodity	
Corn Silage	Corn Silage		<input checked="" type="checkbox"/>	40	<input type="checkbox"/>	<input type="checkbox"/>	Silage	
Corn Silage New	Corn Silage	New Corn Silage	<input checked="" type="checkbox"/>	41	<input type="checkbox"/>	<input type="checkbox"/>	Silage	
Corn Wet Cake	Corn WetCake		<input checked="" type="checkbox"/>	40	<input type="checkbox"/>	<input type="checkbox"/>	Commodity	
Cotton Seed	Cotton Seed		<input checked="" type="checkbox"/>	10	<input type="checkbox"/>	<input type="checkbox"/>	Commodity	
DDG	DDG		<input type="checkbox"/>	35	<input type="checkbox"/>	<input type="checkbox"/>	Commodity	
Far Off Mineral	Mineral		<input checked="" type="checkbox"/>	40	<input type="checkbox"/>	<input type="checkbox"/>	Mineral	
Ground Corn	Ground Corn		<input checked="" type="checkbox"/>	20	<input type="checkbox"/>	<input type="checkbox"/>	Commodity	
Hay	Hay		<input type="checkbox"/>	20	<input type="checkbox"/>	<input type="checkbox"/>	Commodity	
Lactating Mineral	Lact Mineral		<input checked="" type="checkbox"/>	10	<input type="checkbox"/>	<input type="checkbox"/>	Mineral	
Milo Wet Cake	Milo		<input checked="" type="checkbox"/>	40	<input type="checkbox"/>	<input type="checkbox"/>	Commodity	
Molasses	Molasses		<input checked="" type="checkbox"/>	20	<input type="checkbox"/>	<input type="checkbox"/>	Liquid	
Molasses-W	WheyMolasses		<input checked="" type="checkbox"/>	20	<input type="checkbox"/>	<input type="checkbox"/>	Liquid	

3. Click the **Delete** icon from the Ingredients toolbar.



A delete confirmation box will appear. If you would like to delete the ingredient, pick "Yes."



## COPYING AN INGREDIENT

If you would like to create an ingredient that is very similar to an existing ingredient, you do not need to create the new ingredient. Rather, you could simply copy an existing ingredient and then change the new ingredient accordingly.

1. Click on the **Ingredients** icon from the ribbon bar.



2. From the ingredient list, click on the ingredient that you would like to copy.
3. Click on the **Copy** icon from the Ingredients toolbar.



The new ingredient will be created and added to the list of ingredients.

Home

Ingredients

Ingredient Name	In Recipe	Load Tolerance	Type	Made By Recipe	30 Days AF Lb
▶ Alfalfa Hay	<input checked="" type="checkbox"/>	40	Hay		397,971
Alfalfa Hay (1)	<input type="checkbox"/>	40	Hay		0
Canola Meal	<input checked="" type="checkbox"/>	10	Commodity		48,364
Close Up Mineral	<input checked="" type="checkbox"/>	40	Mineral		9,115
Corn Gluten	<input checked="" type="checkbox"/>	20	Commodity		72,649
Corn Silage	<input checked="" type="checkbox"/>	40	Silage		0
Corn Silage New	<input checked="" type="checkbox"/>	41	Silage		1,009,573
Corn Wet Cake	<input checked="" type="checkbox"/>	40	Commodity		0
Cotton Seed	<input checked="" type="checkbox"/>	10	Commodity		132,918

4. From the ingredient list, click on the “new” ingredient that was just created.
5. Then, modify the new ingredient as desired (i.e. new name, different cost, different load tolerance, etc.).
6. Click **Save**.

## INGREDIENT PROJECTIONS

Ingredient projections are the expected individual ingredient usage quantities based on current feeding rates. There are several places to view ingredient projections in FeedWatch.

- Ingredients tab > Ingredients main grid
- Ingredients tab > Requirements panel
- Projections tab > Projections main grid
- Projection report(s)

---

## VIEWING PROJECTIONS FROM THE INGREDIENT TAB

Follow the steps below to view ingredient usage projections (via the Ingredient tab).

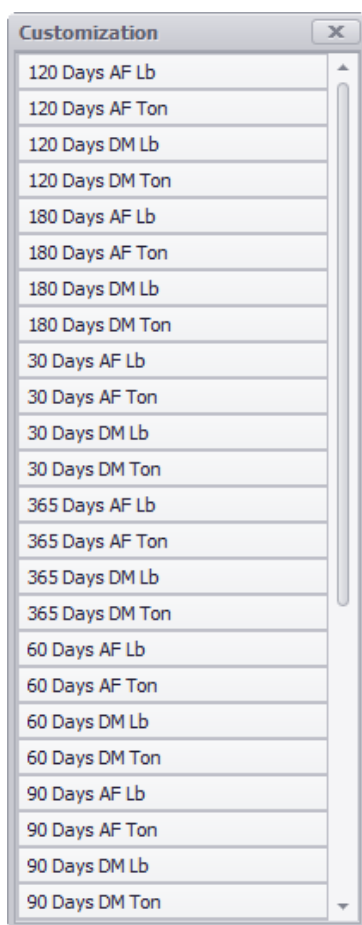
1. Click on the **Ingredients** icon from the ribbon bar.



2. Load in the desired projection columns into the ingredient grid.

For more information on adding a column to a grid, refer to the “Adding a Column to a Grid” section of this manual (which can be found under the “FeedWatch Graphic Interface” chapter).

*Available “projection” grid columns options include:*



3. Click on the ingredient that you would like to view the projections for.
4. Navigate to the **Requirements** panel.

Notice the projected usage rates for this specific ingredient.

Based on the current feeding schedule:  
397,971 AF lbs. of Alfalfa Hay are used per month.

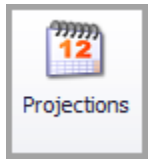
Ingredient Name	In Recipe	Load Tolerance	Type	Made By Recipe	30 Days AF Lb
Alfalfa Hay	<input checked="" type="checkbox"/>	40	Hay		397,971
Canola Meal	<input checked="" type="checkbox"/>	10	Commodity		48,364
Close Up Mineral	<input checked="" type="checkbox"/>	4	Mineral		9,115
Corn Gluten	<input checked="" type="checkbox"/>	20	Commodity		72,649
Corn Silage	<input checked="" type="checkbox"/>	40	Silage		0
Corn Silage New	<input checked="" type="checkbox"/>	41	Silage		1,009,573
Corn Wet Cake	<input checked="" type="checkbox"/>	40	Commodity		0
Cotton Seed	<input checked="" type="checkbox"/>	10	Commodity		123,916
Far Off Mineral	<input checked="" type="checkbox"/>				
Ground Corn	<input checked="" type="checkbox"/>				
Lactating Mineral	<input checked="" type="checkbox"/>				
Milo Wet Cake	<input checked="" type="checkbox"/>				
Molasses	<input checked="" type="checkbox"/>				

Requirements	
Daily AF Lb	13,266
Days Left	0
30 Days AF Lb	397,971
60 Days AF Lb	795,943
90 Days AF Lb	1,193,914
180 Days AF Lb	2,387,828
365 Days AF Lb	4,641,985

## VIEWING PROJECTIONS FROM THE PROJECTIONS TAB

Follow the steps below to view ingredient usage projections (via the Projections tab).

1. Click on the **Projections** icon from the ribbon bar.



2. Load in the desired columns into the projections grid.

For more information on adding a column to a grid, refer to the “Adding a Column to a Grid” section of this manual (which can be found under the “FeedWatch Graphic Interface” chapter).

3. Toggle the **Expand Premixes** box if desired.
4. Toggle between **AF** or **DM** as desired.

<b>Expand Premixes</b> <b>(CHECKED)</b>	Will include projected usage for ingredients that make up any premix “recipe” (i.e. ingredients in a premix). Will <b>NOT</b> show the premix “ingredient” projections.
<b>Expand Premixes</b> <b>(UNCHECKED)</b>	Will include projected usage for any premix “ingredient.” Will <b>NOT</b> show the projected usage for ingredients that make up any premix “recipe” (i.e. ingredients in a premix).

The screenshot shows the Projections tab interface. A green box highlights the 'Expand Premixes' checkbox, which is checked. A blue box highlights the 'AF' and 'DM' radio buttons, with 'AF' selected. A black box highlights the 'Daily Lbs' column in the grid. Callout boxes provide instructions: 'Switch between showing premix sub-ingredients.' points to the 'Expand Premixes' checkbox; 'Switch between As Feed projections and Dry Matter projections.' points to the 'AF' and 'DM' radio buttons; 'View daily, monthly, or yearly projections (either lbs or tons).' points to the 'Daily Lbs' column header.

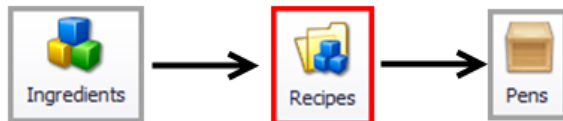
Item Location	Ingredient Type	Daily Lbs	Daily Ton	30 Days Lbs	30 Days Ton	60 Days Lbs	60 Days Ton	90 Days Lbs
Corn Silage - unknown	Forage	14,792	7.40	443,774	221.89	887,548	443.77	1,331
Hay - unknown	Roughage	3,772	1.89	113,166	56.58	226,332	113.17	3

# RECIPES

## RECIPES OVERVIEW

There are 3 basics that need to be setup and monitored to feed animals using FeedWatch:

- INGREDIENTS – Ingredients inputted
- **RECIPES** – Ingredients assigned to recipes
- PENS – Recipes assigned to pens



## CREATING A RECIPE

1. Click on the **Recipes** icon from the ribbon bar.



2. Click on the **New** icon from the Recipes toolbar.



3. Navigate to the **Recipe** panel. Enter the necessary information.

<b>Name</b>	Name of the recipe as desired (50 character limit).
<b>Short Name</b>	Uses the first 12 characters from the “Name” field.
<b>Description</b>	Allows recipe details to be entered (optional).
<b>Density Factor</b>	Measures the “density” or “fluff factor” of the recipe. Displayed as a percentage of total mixer capacity. By default, the percentage will be 100% of the mixer capacity when creating a new recipe.



**NOTE:** *DM and AF values will be populated automatically once ingredients are added to the recipe.*

\*Items noted in pink are required.

You will not be able to “save” the new recipe until ingredient(s) are added to the recipe.

4. Navigate to the **Instructions** panel.
5. Click on the **New** icon from the Instructions toolbar.



A blank row will appear.

Inventory Item Location	Description	Quantity	AF Qty	DM Qty	% of DM	% of AF	Recipe Action	Sequence	Display Sequence	Recipe Instructions
		0	0.00	0.00	0.00 %	0.00 %		1	1	Default

Enter the necessary information for each ingredient desired to add to the recipe.

<b>Inventory Item Location</b>	Identifies which ingredient/location is to be added to the recipe.
<b>AF Qty/DM Qty</b>	Establishes the proportion of each ingredient to make up the recipe.
<b>Recipe Action</b>	Allows a specific instruction for the ingredient (i.e. mixing delay can be applied after ingredient is loaded).
<b>Sequence</b>	Establishes the order in which the ingredients will be added to the mixer (i.e. mixing order).
<b>Display Sequence</b>	Orders the ingredients on the desktop FW application ONLY (does NOT establish mixing order).
<b>Allow Manual Advance</b>	Checked = Permits the ingredient to be auto advanced when loading.

6. From the **Inventory Item Location** pull-down, pick the desired ingredient to add to the recipe.



**Instructions**

Inventory Item Location      Description

Hay - Bay 1

Cotton Seed - Bay 4

Far Off Mineral - Bags

Ground Corn - Bay 4

Hay - Bay 1

Lactating Mineral - Bay 9

Milo Wet Cake - Bay 3

Molasses - Boom

- Enter a quantity amount (either AF or DM).



**WARNING:** The "recipe quantity" (AF Qty or DM Qty) does NOT drive the amount of feed targeted to a pen. To modify targeted intake amounts for a pen, change the feeding quantity via the Pens tab. For more information, refer to the "Adding Feeding(s) to an Existing Pen" section of this manual.

- Modify the other fields if desired (optional).

Inventory Item Location	AF Qty	DM Qty	Recipe Action	Sequence	Display Sequence	Allow Manual Advance	% of DM	% of AF
Hay - Bay 1	6.25	5.00	Add Ingredient	1	1	<input checked="" type="checkbox"/>	100.00 %	100.00 %

- Repeat the steps noted above to add as many ingredients as desired to the recipe.
- Click **Save**.

## FROM INGREDIENT TAB

1. Click on the **Ingredients** icon from the ribbon bar.



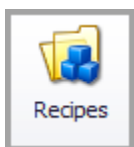
2. From the list of Ingredients, find the ingredient that is desired to be made via a premix recipe.
3. Click in the **Made By Recipe** column, pick the desired recipe. (If the recipe hasn't yet been created, refer to the "Creating a Recipe" section in this manual).

Home Ingredients Recipes					
Ingredient Name	In Recipe	Load Tolerance	Type	Made By Recipe	
Lactating Mineral	<input checked="" type="checkbox"/>	10	Mineral		
Milo Wet Cake	<input checked="" type="checkbox"/>	40	Commodity		
Molasses	<input checked="" type="checkbox"/>	20	Liquid		
Molasses-W	<input checked="" type="checkbox"/>	20	Liquid		
Premix 1	<input type="checkbox"/>	20	Premix	Premix 1	
Premix 2	<input type="checkbox"/>	20	Premix	<div> Close Up  Far Off  Fresh  Heifer  High  Premix 1 </div>	
Silage	<input checked="" type="checkbox"/>	40	Silage		
Sorghum Silage	<input checked="" type="checkbox"/>	40	Silage		
Sweet Bran	<input checked="" type="checkbox"/>	20	Commodity		
Triticale Silage	<input checked="" type="checkbox"/>	40	Silage		
Water	<input checked="" type="checkbox"/>	20	Liquid		

4. Click **Save**.

Verify that the recipe is now identified as a "premix" recipe.

5. Click on the **Recipes** icon from the ribbon bar.



6. Find the recipe that was picked earlier. Notice that the **Premix** check box is now checked for that recipe.

Home Ingredients Recipes				
Short Na...	Actual DM %	DM HD	AF HD	Premix
Close Up	51.20 %	26.01	50.80	<input type="checkbox"/>
Far Off	41.98 %	27.76	66.12	<input type="checkbox"/>
Fresh	59.65 %	40.16	67.32	<input type="checkbox"/>
▶ Heifer	43.53 %	20.81	47.80	<input checked="" type="checkbox"/>
High Cow	56.05 %	53.26	95.02	<input type="checkbox"/>
Premix 1	87.36 %	21.84	25.00	<input checked="" type="checkbox"/>

## FROM RECIPES TAB

1. Create a recipe as you normally would (defined in previous steps above). Notice the “Premix” check box is NOT checked.

Home Ingredients Recipes				
Short Na...	Actual DM %	DM HD	AF HD	Premix
Close Up	51.20 %	26.01	50.80	<input type="checkbox"/>
Far Off	41.98 %	27.76	66.12	<input type="checkbox"/>
Fresh	62.34 %	40.16	64.42	<input type="checkbox"/>
Heifer	43.53 %	20.81	47.80	<input type="checkbox"/>
High Cow	58.31 %	53.26	91.34	<input type="checkbox"/>
▶ Premix 1	87.36 %	21.84	25.00	<input type="checkbox"/>

Now, follow the steps below to allow a specific recipe to be generated as a premix.

2. RIGHT-click on the recipe that you would like to allow to be made as a premix ingredient. A fly-out menu will appear.
3. Click on **Create Ingredient**.

	Refresh
	Add New
	Delete
	Copy
	Print Properties
	Print
	Conditional Formatting
	History
	Properties
	Save New Layout
	Reset to Default Layout
	Save as Default Layout
	Show Layouts
	Show Toolbar
	Create Ingredient

A **Create Premix Ingredient** box will appear.

<b>Location</b>	Set the location that the premix will be dropped to.
<b>Quantity</b>	Sets the Quantity of the premix on hand. This assumes that the premix ingredient has already been physically made and that you have a physical quantity on hand. It also assumes that the inventory balance is being tracked for this premix ingredient.
<b>Update Ingredient</b>	Checked = updates the premix ingredient with the location and quantity information specified
<b>No Update</b>	Checked = does not update the premix ingredient with the location and quantity information specified
<b>New Location</b>	Checked = assigns a new location for this premix ingredient

Notice the **Premix** check box is now checked.

Home

Ingredients

Recipes

Short Na... ▲	Actual DM %	DM HD	AF HD	Premix
Close Up	51.20 %	26.01	50.80	<input type="checkbox"/>
Far Off	41.98 %	27.76	66.12	<input type="checkbox"/>
Fresh	62.34 %	40.16	64.42	<input type="checkbox"/>
Heifer	43.53 %	20.81	47.80	<input type="checkbox"/>
High Cow	58.31 %	53.26	91.34	<input type="checkbox"/>
► Premix 1	87.36 %	21.84	25.00	<input checked="" type="checkbox"/>

Modify the new premix ingredient (if desired).

- Click on the **Ingredients** tab.
- Rename the premix ingredient as desired.
- Set the load tolerance as desired.

Home

Ingredients

Recipes

Ingredient Name	In Recipe	Load Tolerance	Type	Made By Recipe
Milo Wet Cake	<input checked="" type="checkbox"/>	40	Commodity	
Molasses	<input checked="" type="checkbox"/>	20	Liquid	
Molasses-W	<input checked="" type="checkbox"/>	20	Liquid	
► Premix 16/13/2013 3:01:10 PM	<input type="checkbox"/>	0	Premix	Premix 1
Silage	<input checked="" type="checkbox"/>	40	Silage	
Sorghum Silage	<input checked="" type="checkbox"/>	40	Silage	
Sweet Bran	<input checked="" type="checkbox"/>	20	Commodity	
Triticale Silage	<input checked="" type="checkbox"/>	40	Silage	
Water	<input checked="" type="checkbox"/>	20	Liquid	
Wheat Hay	<input checked="" type="checkbox"/>	20	Hay	

- Click **Save**.

## ADDING AN INGREDIENT TO A RECIPE

1. Click on the **Recipes** icon from the ribbon bar.



2. From the recipe list, click on the recipe that you would like to modify.
3. Navigate to the **Instructions** panel.
4. Click on the **New** icon from the Instructions toolbar.



A blank row will appear.

Instructions									
Inventory Item Location	AF Qty	DM Qty	Recipe Action	Seque...	Display Sequence	Allow Manual Advance	% of DM	% of AF	
Alfalfa Hay - On Pad	9.29	8.08	Add Ingredient	1	1	<input checked="" type="checkbox"/>	15.17 %	9.77 %	
Ground Corn - Bay 4	28.01	21.85	Add Ingredient	2	7	<input checked="" type="checkbox"/>	41.03 %	29.48 %	
Sweet Bran - Bay 2	10.50	6.30	Add Ingredient	3	4	<input checked="" type="checkbox"/>	11.83 %	11.05 %	
			Delay	4	9	<input checked="" type="checkbox"/>			
Milo Wet Cake - Bay 3	11.35	3.86	Add Ingredient	5	5	<input checked="" type="checkbox"/>	7.25 %	11.95 %	
Triticale Silage - Silage Bay 1	8.49	2.97	Add Ingredient	6	2	<input checked="" type="checkbox"/>	5.58 %	8.93 %	
Corn Silage New - Silage Bay 2	22.30	8.25	Add Ingredient	7	3	<input checked="" type="checkbox"/>	15.49 %	23.47 %	
Molasses - Boom	3.09	1.95	Add Ingredient	8	6	<input checked="" type="checkbox"/>	3.66 %	3.25 %	
Water - Boom	2.00	0.00	Add Ingredient	9	8	<input checked="" type="checkbox"/>	0.00 %	2.10 %	
	0.00	0.00		10	10	<input type="checkbox"/>	0.00 %	0.00 %	

Enter the necessary information for the ingredient desired to add to the recipe.

<b>Inventory Item Location</b>	Identifies which ingredient/location is to be added to the recipe.
<b>AF Qty/DM Qty</b>	Establishes the proportion of each ingredient to make up the recipe.
<b>Recipe Action</b>	Allows a specific instruction for the ingredient (i.e. mixing delay can be applied after ingredient is loaded).
<b>Sequence</b>	Establishes the order in which the ingredients will be added to the mixer (i.e. mixing order).
<b>Display Sequence</b>	Orders the ingredients on the desktop FW application ONLY (does NOT establish mixing order).
<b>Allow Manual Advance</b>	Checked = Permits the ingredient to be auto advanced when loading.

5. From the **Inventory Item Location** pull-down, pick the desired ingredient to add to the recipe.

Instructions									
Inventory Item Location	AF Qty	DM Qty	Recipe Action	Seque...	Display Sequence	Allow Manual Advance	% of DM	% of AF	
Alfalfa Hay - On Pad	9.29	8.08	Add Ingredient	1	1	<input checked="" type="checkbox"/>	15.17 %	9.77 %	
Ground Corn - Bay 4	28.01	21.85	Add Ingredient	2	7	<input checked="" type="checkbox"/>	41.03 %	29.48 %	
Sweet Bran - Bay 2	10.50	6.30	Add Ingredient	3	4	<input checked="" type="checkbox"/>	11.83 %	11.05 %	
			Delay	4	9	<input checked="" type="checkbox"/>			
Milo Wet Cake - Bay 3	11.35	3.86	Add Ingredient	5	5	<input checked="" type="checkbox"/>	7.25 %	11.95 %	
Triticale Silage - Silage Bay 1	8.49	2.97	Add Ingredient	6	2	<input checked="" type="checkbox"/>	5.58 %	8.93 %	
Corn Silage New - Silage Bay 2	22.30	8.25	Add Ingredient	7	3	<input checked="" type="checkbox"/>	15.49 %	23.47 %	
Molasses - Boom	3.09	1.95	Add Ingredient	8	6	<input checked="" type="checkbox"/>	3.66 %	3.25 %	
Water - Boom	2.00	0.00	Add Ingredient	9	8	<input checked="" type="checkbox"/>	0.00 %	2.10 %	
	0.00	0.00		10	10	<input type="checkbox"/>	0.00 %	0.00 %	
<div> <div>Corn Wet Cake - Bay 3</div> <div>Cotton Seed - Bay 4</div> <div>Far Off Mineral - Bags</div> <div>Ground Corn - Bay 4</div> <div>Lactating Mineral - Bay 9</div> <div>Milo Wet Cake - Bay 3</div> <div>Molasses - Boom</div> </div>									

- Enter a quantity amount (either AF or DM).
- Modify the other fields if desired (optional).

Inventory Item Location	AF Qty	DM Qty	Recipe Action	Seque...	Display Sequence	Allow Manual Advance	% of DM	% of AF	
Alfalfa Hay - On Pad	9.29	8.08	Add Ingredient	1	1	<input checked="" type="checkbox"/>	14.20 %	9.38 %	
Ground Corn - Bay 4	28.01	21.85	Add Ingredient	2	7	<input checked="" type="checkbox"/>	38.40 %	28.29 %	
Sweet Bran - Bay 2	10.50	6.30	Add Ingredient	3	4	<input checked="" type="checkbox"/>	11.07 %	10.60 %	
			Delay	4	9	<input checked="" type="checkbox"/>			
Milo Wet Cake - Bay 3	11.35	3.86	Add Ingredient	5	5	<input checked="" type="checkbox"/>	6.78 %	11.46 %	
Triticale Silage - Silage Bay 1	8.49	2.97	Add Ingredient	6	2	<input checked="" type="checkbox"/>	5.22 %	8.57 %	
Corn Silage New - Silage Bay 2	22.30	8.25	Add Ingredient	7	3	<input checked="" type="checkbox"/>	14.50 %	22.52 %	
Molasses - Boom	3.09	1.95	Add Ingredient	8	6	<input checked="" type="checkbox"/>	3.43 %	3.12 %	
Water - Boom	2.00	0.00	Add Ingredient	9	8	<input checked="" type="checkbox"/>	0.00 %	2.02 %	
Cotton Seed - Bay 4	4.00	3.64	Add Ingredient	10	10	<input checked="" type="checkbox"/>	6.40 %	4.04 %	

- Click **Save**.

For your information, another method can be used to add an ingredient to a recipe. You can drag and drop an ingredient to the instructions panel (see below).

Home Pens Recipes Ingredients

Short Na... Actual DM % DM HD AF HD Premix Is Active (Primary) Is Active (Alternate)

Close Up	51.20 %	26.01	50.80			
Close Up 2	48.81 %	23.35	47.85			
Far Off	41.98 %	27.76	66.12			
Fresh	59.13 %	39.16	66.22			
Heifer	43.53 %	20.81	47.80			
High Cow	57.46 %	56.90	99.02			
Premix 1	87.36 %	21.84	25.00			

Click on the ingredient desired to be added to the recipe (from the Ingredients panel)

Drag and drop the ingredient to the Instructions panel

Ingredients

Inventory Item	Inventory DM %	DM %
Triticale Silage	36.00 %	35.00 %
Corn Wet Cake	35.00 %	33.00 %
Milo Wet Cake	35.00 %	34.00 %
Corn Gluten	89.40 %	89.40 %
Premix 2	80.00 %	80.00 %
Water	0.00 %	0.00 %
Molasses	65.00 %	63.20 %
Molasses-W	45.00 %	65.00 %
Alfalfa Hay	87.00 %	87.00 %
Wheat Hay	90.00 %	90.00 %
Alfalfa Hay 2	87.00 %	87.00 %
Wheat Straw	92.70 %	90.00 %
Far Off Mineral	96.12 %	96.12 %
Close Up Mineral	99.99 %	92.14 %
Cotton Seed	91.00 %	91.00 %
Ground Corn	88.00 %	78.00 %

Instructions

Inventory Item Location	AF Qty	DM Qty	Recipe Action	Sequence	Display Sequence	Allow Manual Advance	% of DM	% of AF	Quantity
Alfalfa Hay - On Pad	8.86	7.71	Add Ingredient	1	1		19.69 %	13.38 %	
Wheat Hay - On Pad	1.93	1.74	Add Ingredient	2	8		4.44 %	2.91 %	
Ground Corn - Bay 4	22.08	17.22	Add Ingredient	3	7		43.98 %	33.34 %	
Sweet Bran - Bay 2	6.95	4.17	Add Ingredient	4	4		10.65 %	10.49 %	
Triticale Silage - Silage Bay 1	4.57	1.60	Add Ingredient	5	2		4.09 %	6.90 %	
Corn Silage New - Silage Bay 2	14.95	5.53	Add Ingredient	6	3		14.12 %	22.57 %	
Molasses - Boom	1.88	1.19	Add Ingredient	7	6		3.04 %	2.84 %	
Water - Boom	5.00	0.00	Add Ingredient	8	5		0.00 %	7.55 %	

Cotton Seed 91.00 % 91.00 %

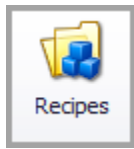
Instructions Costs Chemistry Alternate Recipes Ingredients Chart Chemistries Chart

The ingredient is then added to the recipe.

Instructions									
Inventory Item Location	AF Qty	DM Qty	Recipe Action	Sequence	Display Sequence	Allow Manual Advance	% of DM	% of AF	
Alfalfa Hay - On Pad	8.86	7.71	Add Ingredient	1	1		19.69 %	13.38 %	
Wheat Hay - On Pad	1.93	1.74	Add Ingredient	2	8		4.44 %	2.91 %	
Ground Corn - Bay 4	22.08	17.22	Add Ingredient	3	7		43.98 %	33.34 %	
Sweet Bran - Bay 2	6.95	4.17	Add Ingredient	4	4		10.65 %	10.49 %	
Triticale Silage - Silage Bay 1	4.57	1.60	Add Ingredient	5	2		4.09 %	6.90 %	
Corn Silage New - Silage Bay 2	14.95	5.53	Add Ingredient	6	3		14.12 %	22.57 %	
Molasses - Boom	1.88	1.19	Add Ingredient	7	6		3.04 %	2.84 %	
Water - Boom	5.00	0.00	Add Ingredient	8	5		0.00 %	7.55 %	
Cotton Seed - Bay 4	0.00	0.00	Add Ingredient	9	9		0.00 %	0.00 %	

## ADDING A MIXING DELAY TO A RECIPE

1. Click on the **Recipes** icon from the ribbon bar.



2. From the recipe list, click on the recipe that you would like to add a mixing delay to.
3. Navigate to the **Instructions** panel.
4. Look for the **Quantity** column in the Instructions grid.

If the Quantity column is not present, you will need to add it. For more information on adding a column to a grid, refer to the “Adding a Column to a Grid” section of this manual (which can be found under the “FeedWatch Graphic Interface” chapter).

5. Click on the **New** icon from the Instructions toolbar.



A blank row will appear.

Instructions									
Inventory Item Location	AF Qty	DM Qty	Recipe Action	Seque...	Display Sequence	Allow Manual Advance	% of DM	% of AF	Quantity
Wheat Straw - On Pad	4.94	4.45	Add Ingredient	1	3	<input checked="" type="checkbox"/>	16.03 %	7.48 %	
Triticale Silage - Silage Bay 1	21.37	7.48	Add Ingredient	2	2	<input checked="" type="checkbox"/>	26.95 %	32.32 %	
Corn Gluten - Bay 10	4.00	3.58	Add Ingredient	3	6	<input checked="" type="checkbox"/>	12.88 %	6.05 %	
Canola Meal - Bay 5	1.97	1.77	Add Ingredient	4	5	<input checked="" type="checkbox"/>	6.39 %	2.98 %	
Far Off Mineral - Bags	0.50	0.48	Add Ingredient	5	4	<input checked="" type="checkbox"/>	1.73 %	0.76 %	
Sorghum Silage - Silage Bay 1	33.33	10.00	Add Ingredient	6	1	<input checked="" type="checkbox"/>	36.02 %	50.41 %	
	0.00	0.00		7	7	<input type="checkbox"/>	0.00 %	0.00 %	0

6. From the **Recipe Action** pull-down, pick **Delay**.

Notice some of the fields will automatically turn gray.

Instructions									
Inventory Item Location	AF Qty	DM Qty	Recipe Action	Seque...	Display Sequence	Allow Manual Advance	% of DM	% of AF	Quantity
Wheat Straw - On Pad	4.94	4.45	Add Ingredient	1	3	<input checked="" type="checkbox"/>	16.03 %	7.48 %	
Triticale Silage - Silage Bay 1	21.37	7.48	Add Ingredient	2	2	<input checked="" type="checkbox"/>	26.95 %	32.32 %	
Corn Gluten - Bay 10	4.00	3.58	Add Ingredient	3	6	<input checked="" type="checkbox"/>	12.88 %	6.05 %	
Canola Meal - Bay 5	1.97	1.77	Add Ingredient	4	5	<input checked="" type="checkbox"/>	6.39 %	2.98 %	
Far Off Mineral - Bags	0.50	0.48	Add Ingredient	5	4	<input checked="" type="checkbox"/>	1.73 %	0.76 %	
Sorghum Silage - Silage Bay 1	33.33	10.00	Add Ingredient	6	1	<input checked="" type="checkbox"/>	36.02 %	50.41 %	
			Delay	7	7	<input checked="" type="checkbox"/>			0

7. Enter a delay **Quantity** (quantity is in minutes).



Inventory Item Location	AF Qty	DM Qty	Recipe Action	Sequence	Display Sequence	Allow Manual Advance	% of DM	% of AF	Quantity
Wheat Straw - On Pad	4.94	4.45	Add Ingredient	1	3	<input checked="" type="checkbox"/>	16.03 %	7.48 %	
Triticale Silage - Silage Bay 1	21.37	7.48	Add Ingredient	2	2	<input checked="" type="checkbox"/>	26.95 %	32.32 %	
Corn Gluten - Bay 10	4.00	3.58	Add Ingredient	3	6	<input checked="" type="checkbox"/>	12.88 %	6.05 %	
Canola Meal - Bay 5	1.97	1.77	Add Ingredient	4	5	<input checked="" type="checkbox"/>	6.39 %	2.98 %	
Far Off Mineral - Bags	0.50	0.48	Add Ingredient	5	4	<input checked="" type="checkbox"/>	1.73 %	0.76 %	
Sorghum Silage - Silage Bay 1	33.33	10.00	Add Ingredient	6	1	<input checked="" type="checkbox"/>	36.02 %	50.41 %	
			Delay	7	7	<input checked="" type="checkbox"/>			3

Now modify the Delay to occur after the desired ingredient.

- If you would like the delay timer to occur after the last ingredient is loaded, then make the sequence number for the Delay item the largest number in the column.
- If you would like the delay timer to occur after a specific ingredient is loaded, then modify the sequence number accordingly (as shown below).

Inventory Item Location	AF Qty	DM Qty	Recipe Action	Sequence
Wheat Straw - On Pad	4.94	4.45	Add Ingredient	1
Triticale Silage - Silage Bay 1	21.37	7.48	Add Ingredient	3
Corn Gluten - Bay 10	4.00	3.58	Add Ingredient	4
Canola Meal - Bay 5	1.97	1.77	Add Ingredient	5
Far Off Mineral - Bags	0.50	0.48	Add Ingredient	6
Sorghum Silage - Silage Bay 1	33.33	10.00	Add Ingredient	7
			Delay	2

- Click **Save**.

In this example, the following will occur:

- Wheat Straw will be loaded
- Delay timer will occur (for 3 minutes)
- Triticale Silage will be loaded
- ....and so on

Instructions									
Inventory Item Location	AF Qty	DM Qty	Recipe Action	Sequence	Display Sequence	Allow Manual Advance	% of DM	% of AF	Quantity
Wheat Straw - On Pad	4.94	4.45	Add Ingredient	1	4	<input checked="" type="checkbox"/>	16.03 %	7.48 %	
			Delay	2	2	<input checked="" type="checkbox"/>			3
Triticale Silage - Silage Bay 1	21.37	7.48	Add Ingredient	3	3	<input checked="" type="checkbox"/>	26.95 %	32.32 %	
Corn Gluten - Bay 10	4.00	3.58	Add Ingredient	4	7	<input checked="" type="checkbox"/>	12.88 %	6.05 %	
Canola Meal - Bay 5	1.97	1.77	Add Ingredient	5	6	<input checked="" type="checkbox"/>	6.39 %	2.98 %	
Far Off Mineral - Bags	0.50	0.48	Add Ingredient	6	5	<input checked="" type="checkbox"/>	1.73 %	0.76 %	
Sorghum Silage - Silage Bay 1	33.33	10.00	Add Ingredient	7	1	<input checked="" type="checkbox"/>	36.02 %	50.41 %	

If desired, repeat the steps to add additional delay timers to the recipe.

## REMOVING AN INGREDIENT FROM A RECIPE

1. Click on the **Recipes** icon from the ribbon bar.



2. From the recipe list, click on the recipe that you would like to modify.
3. Navigate to the **Instructions** panel.
4. Click on the ingredient you would like to remove from the recipe.

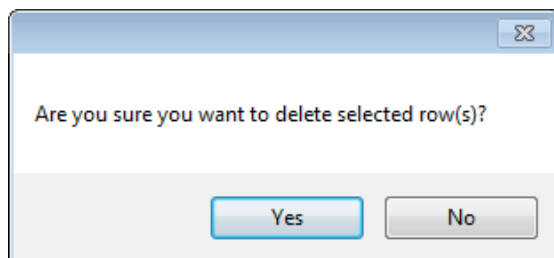
Inventory Item Location	AF Qty	DM Qty	Recipe Action	Sequence	Display Sequence	Allow Manual Advance	% of DM	% of AF
Alfalfa Hay - On Pad	8.86	7.71	Add Ingredient	1	1	<input checked="" type="checkbox"/>	19.20 %	13.16 %
Wheat Hay - On Pad	1.93	1.74	Add Ingredient	2	2	<input checked="" type="checkbox"/>	4.83 %	2.87 %
Ground Corn - Bay 4	22.08	17.22	Add Ingredient	3	3	<input checked="" type="checkbox"/>	56.9 %	32.80 %
Sweet Bran - Bay 2	6.95	4.17	Add Ingredient	4	4	<input checked="" type="checkbox"/>	18 %	10.32 %
Cotton Seed - Bay 4	4.48	1.88	Add Ingredient	5	5	<input checked="" type="checkbox"/>	11.9 %	1.63 %
Triticale Silage - Silage Bay 1	4.57	1.60	Add Ingredient	6	6	<input checked="" type="checkbox"/>	11.8 %	6.79 %
Corn Silage New - Silage Bay 2	14.95	5.53	Add Ingredient	7	7	<input checked="" type="checkbox"/>	37.7 %	22.20 %
Molasses - Boom	1.88	1.19	Add Ingredient	8	8	<input checked="" type="checkbox"/>	2.96 %	2.80 %
Water - Boom	5.00	0.00	Add Ingredient	9	9	<input checked="" type="checkbox"/>	0.00 %	7.43 %

Note that the "dotted" line will populate around the row that is selected

5. Click the **Delete** icon from the Instructions toolbar.



6. A delete confirmation box will appear. If you would like to remove/delete the ingredient from the recipe, pick "Yes."



7. Click **Save**.

## DELETING A RECIPE

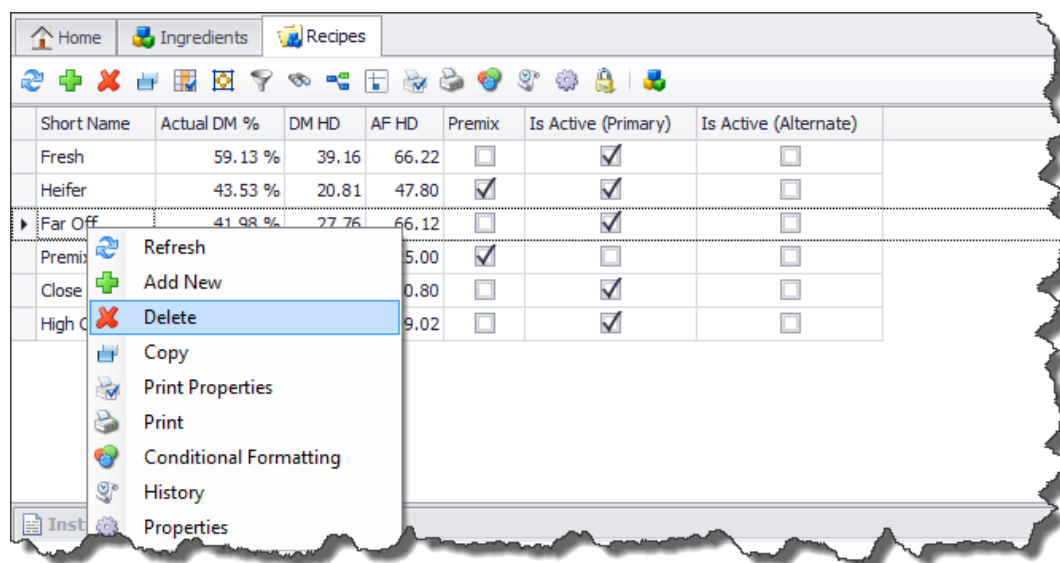


**WARNING:** Prior to deleting a recipe, make sure the recipe isn't assigned to any pens.

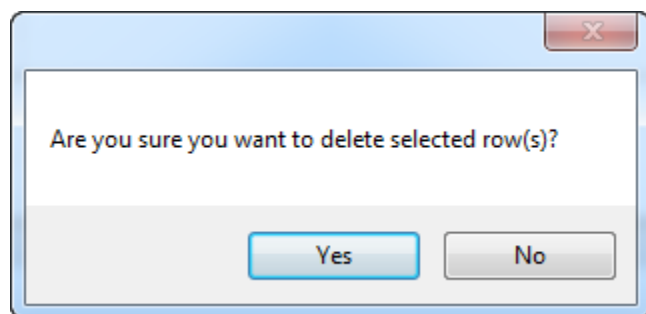
1. Click on the **Recipes** icon from the ribbon bar.



2. From the recipe list, RIGHT-click on the recipe that you would like to delete from FeedWatch. A fly-out menu will appear.
3. Pick **Delete**.



4. A delete confirmation box will appear. If you would like to delete the recipe, pick "Yes."



## COPYING A RECIPE

If you would like to create a recipe that is very similar to an existing recipe, you do not need to create the new recipe. Rather, you could simply copy an existing recipe and then change the new recipe accordingly.

1. Click on the **Recipes** icon from the ribbon bar.



2. From the recipe list, click on the recipe that you would like to copy.
3. Click on the **Copy** icon from the Recipes toolbar.



The new recipe will be created and added to the list of recipes.

Home

Recipes

Short Name	Actual DM %	DM HD	AF HD	Premix	Is Active (Primary)	Is Active (Alternate)
Fresh	59.13 %	39.16	66.22	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heifer	43.53 %	20.81	47.80	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Far Off	41.98 %	27.76	66.12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Premix 1	87.36 %	21.84	25.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Close Up	51.20 %	26.01	50.80	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
High Cow	57.46 %	56.90	99.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Close Up (1)	51.20 %	26.01	50.80	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. From the recipe list, click on the “new” recipe that was just created.
5. Then, modify the new recipe as desired (i.e. new name, different ingredients, different density factor, etc.).
6. Click **Save**.



**TIP:** Prior to setting up an “alternate recipe” you will need to create a new recipe (Example: “primary” recipe has Whey and the “alternate” recipe does not have Whey). So the recipe without Whey would need to be created. Refer to **Creating a Recipe** and/or **Copying a Recipe** sections of this manual for more information on setting up a new recipe.

## SETTING UP AN ALTERNATE RECIPE

1. Click on the **Recipes** icon from the ribbon bar.



2. From the recipe list, click on the recipe that you would like to setup an alternate for.
3. Load in the **Is Active (Primary)** and **Is Active (Alternate)** columns into the recipes grid.

For more information on adding a column to a grid, refer to the “Adding a Column to a Grid” section of this manual (which can be found under the “FeedWatch Graphic Interface” chapter).

<div> <span>Home</span> <span>Ingredients</span> <span>Recipes</span> </div>							
<div> <span>Refresh</span> <span>Save</span> <span>Print</span> <span>Export</span> <span>Import</span> <span>Filter</span> <span>Sort</span> <span>Grid</span> <span>Table</span> <span>Chart</span> <span>Help</span> </div>							
Short Name	Actual DM %	DM HD	AF HD	Premix	Is Active (Primary)	Is Active (Alternate)	
▶ Fresh	59.13 %	39.16	66.22	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Heifer	43.53 %	20.81	47.80	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Far Off	41.98 %	27.76	66.12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Premix 1	87.36 %	21.84	25.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Close Up	51.20 %	26.01	50.80	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
High Cow	57.46 %	56.90	99.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Close Up 2	48.81 %	23.35	47.85	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

In the steps noted below, we will set up the following:

- The Close Up recipe = **Primary recipe**
- The Close Up 2 recipe = **Alternate recipe**

Notice the **Is Active (Primary)** column is automatically checked for the Close Up recipe. This means that this recipe is currently assigned to be fed to at least one pen.

Short Na... ▾	Actual DM %	DM HD	AF HD	Premix	Is Active (Primary)	Is Active (Alternate)
Premix 1	87.36 %	21.84	25.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
High Cow	57.46 %	56.90	99.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heifer	43.53 %	20.81	47.80	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fresh	59.13 %	39.16	66.22	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Far Off	41.98 %	27.76	66.12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Close Up 2	48.81 %	23.35	47.85	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Close Up	51.20 %	26.01	50.80	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

4. Navigate to the **Alternate Recipes** panel.
5. Click on the **New** icon from the Alternate Recipes toolbar.

6. Pick the appropriate **Alternate Recipe**.

7. Click **Save**.

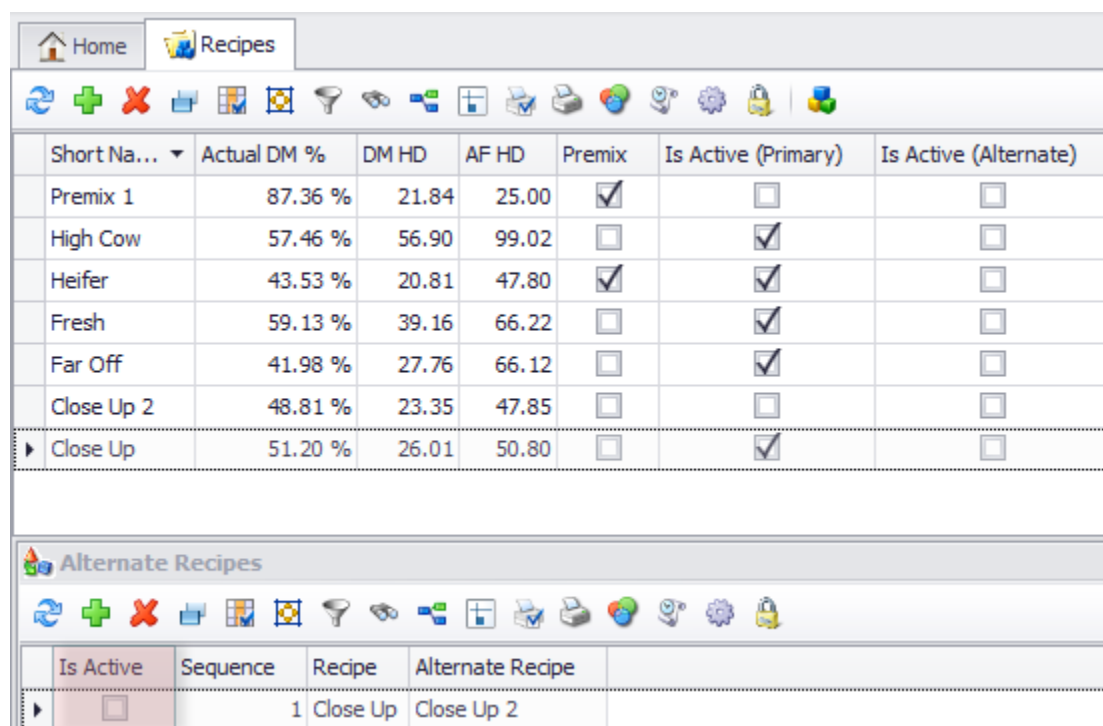
## ACTIVATING AN ALTERNATE RECIPE

1. Click on the **Recipes** icon from the ribbon bar.



2. From the recipe list, click on the “primary” recipe that you would like to modify the alternate for.
3. Navigate to the **Alternate Recipes** panel.

Notice that the “Is Active” column is currently unchecked in the Alternate Recipes panel. This means that the primary recipe is active, not the alternate.



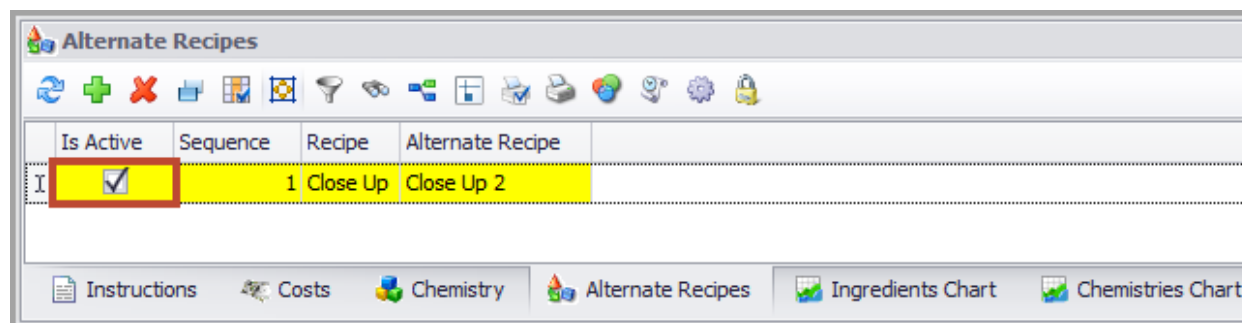
The screenshot shows the software interface with the 'Recipes' tab selected. Below the ribbon bar, there is a table of recipes. The 'Is Active (Primary)' column for 'Close Up' is checked. Below this table is the 'Alternate Recipes' panel, which contains a table with one row: '1 Close Up' as the 'Recipe' and 'Close Up 2' as the 'Alternate Recipe'. The 'Is Active' checkbox in this row is currently unchecked.

Short Na...	Actual DM %	DM HD	AF HD	Premix	Is Active (Primary)	Is Active (Alternate)
Premix 1	87.36 %	21.84	25.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
High Cow	57.46 %	56.90	99.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heifer	43.53 %	20.81	47.80	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fresh	59.13 %	39.16	66.22	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Far Off	41.98 %	27.76	66.12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Close Up 2	48.81 %	23.35	47.85	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Close Up	51.20 %	26.01	50.80	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Is Active	Sequence	Recipe	Alternate Recipe
<input type="checkbox"/>	1	Close Up	Close Up 2

4. Click the **Is Active** check box in the Alternate Recipes panel.



This screenshot shows the 'Alternate Recipes' panel after the 'Is Active' checkbox has been checked. The checkbox is now checked, and the entire row is highlighted in yellow. The bottom of the interface shows a ribbon bar with various icons and labels: 'Instructions', 'Costs', 'Chemistry', 'Alternate Recipes', 'Ingredients Chart', and 'Chemistries Chart'.

Is Active	Sequence	Recipe	Alternate Recipe
<input checked="" type="checkbox"/>	1	Close Up	Close Up 2

5. Click **Save**.

Now, the primary recipe is no longer being fed. The alternate recipe is essentially taking its place.

Home Recipes							
Short Na...	Actual DM %	DM HD	AF HD	Premix	Is Active (Primary)	Is Active (Alternate)	
Premix 1	87.36 %	21.84	25.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
High Cow	57.46 %	56.90	99.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Heifer	43.53 %	20.81	47.80	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Fresh	59.13 %	39.16	66.22	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Far Off	41.98 %	27.76	66.12	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Close Up 2	48.81 %	23.35	47.85	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Close Up	51.20 %	26.01	50.80	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Unchecked = the primary recipe will not be fed. However, the primary recipe still is "assigned" to the pen(s)**

**Checked = the alternate recipe will be fed to any pen that has the primary recipe "assigned" to it (i.e. Close Up recipe)**



**TIP:** To verify if an alternate recipe is being fed, you can also go to the Pens tab to do so. Refer to the "Adding Feeding(s) to an Exiting Pen" section of this manual for more information.



# PENS

## PENS OVERVIEW

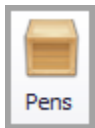
There are 3 basics that need to be setup and monitored to feed animals using FeedWatch:

- INGREDIENTS – Ingredients inputted
- RECIPES – Ingredients assigned to recipes
- **PENS** – Recipes assigned to pens



## CREATING A NEW PEN

1. Click on the **Pens** icon from the ribbon bar.



2. Click on the **New** icon from the Pens toolbar.



3. Navigate to the **Pen** panel. Enter the necessary information.

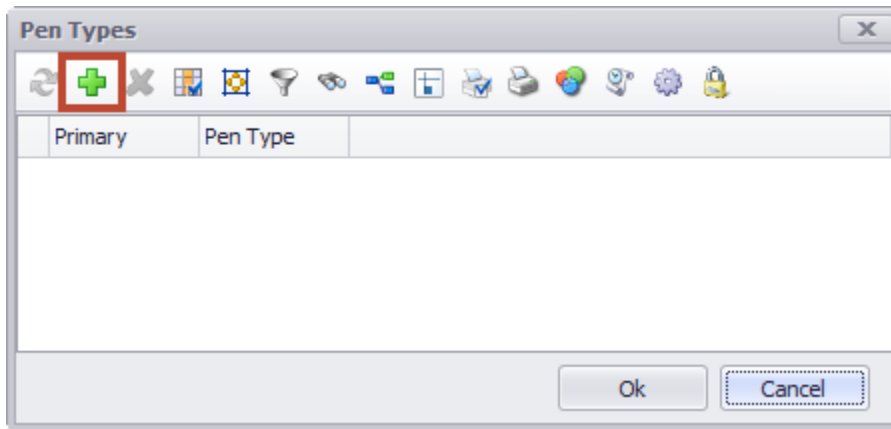
<b>Pen Name</b>	Name of the recipe as desired (50 character limit).
<b>Number</b>	Unique pen number for the specific pen. NOTE: If importing pen counts or pen data from DC 305 into FW, the pen number in FW needs to match the pen number in DC 305.
<b>Description</b>	Allows pen details to be entered (optional).

\*Items noted in pink are required.

4. To specify the Pen Type, click on the browse button.

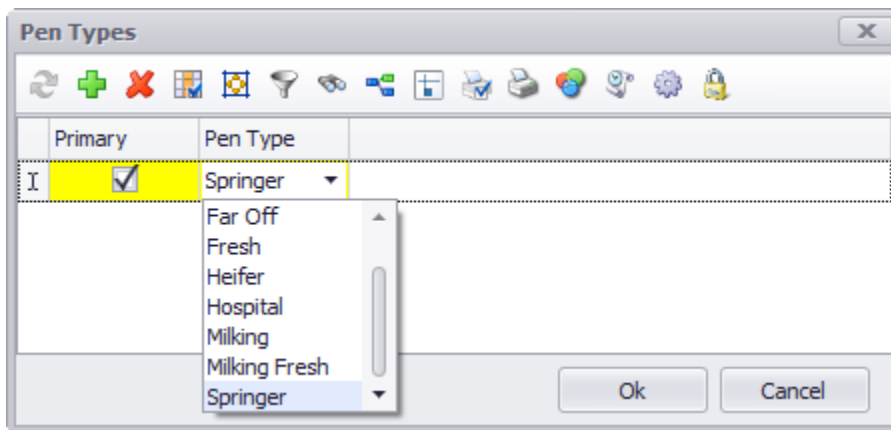
A **Pen Types** box will appear.

5. Click on the **New** icon in the Pen Types box.



A blank row will appear.

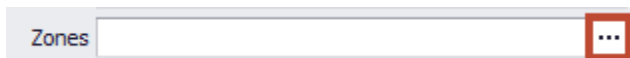
6. From the **Pen Type** pull-down, pick the desired pen type from the list.



7. If desired, repeat the last two steps to add additional pen types to this new pen.
8. Click **OK**.

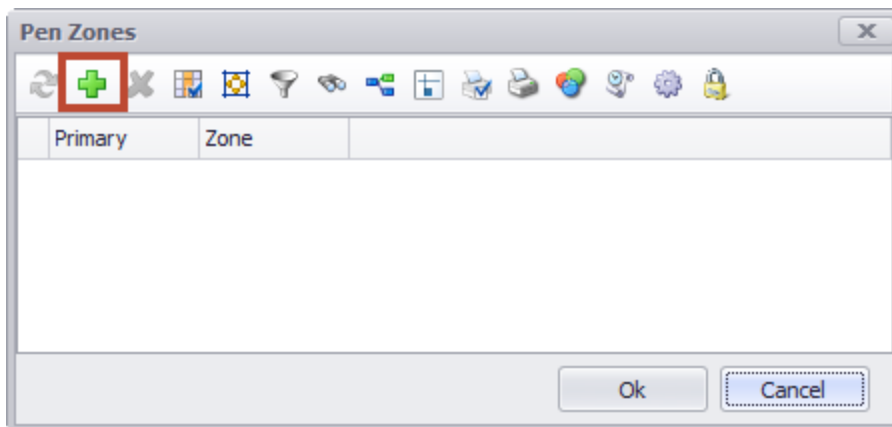
Now specify the **Zone** from the Pen panel.

9. Click on the Zone browse button.



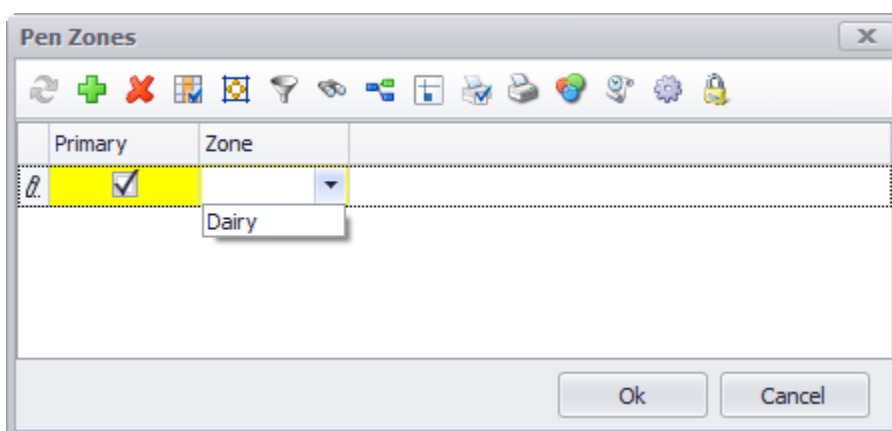
A **Pen Zones** box will appear.

10. Click on the **New** icon in the Pen Zones box.



A blank row will appear.

11. From the **Zone** pull-down, pick the desired Zone from the list.



12. If desired, repeat the last two steps to add additional zones to this new pen.
13. Click **OK**.
14. In the Pen panel, enter the remaining information needed.

<b>Pen Type(s)</b>	Allows a type designation to be applied to a pen (primarily used for reporting purposes).
<b>Zones</b>	Designates specific pens or equipment to a specific area of the dairy. ( <i>example:</i> Pens in Zone 1 are not permitted to be fed together on the same load with pens from Zone 2). NOTE: most dairies will implement only one Zone.
<b>Cow Count</b>	Amount of "cows" in the pen.
<b>Cow Target DM Hd</b>	Targeted Dry Matter total per cow per day.
<b>Bull Count</b>	Amount of "bulls" in the pen.
<b>Bull Target DM Hd</b>	Targeted Dry Matter total per bull per day.
<b>Avg Wt/HD</b>	Average weight of an animal in the pen (used for informational purposes only).
<b>Min Drop AF</b>	Smallest quantity of feed that would be permissible to drop to the pen.
<b>Drop Sequence</b>	If multiple pens are on the same load, FW will drop to the pen with the smallest drop sequence number.
<b>Capacity</b>	Pen count limit for the pen.
<b>Is Disabled</b>	Checked = Pen will not appear on the feeding schedule.

\*Items noted in pink are required.

Pen Name  Number

Description

Pen Type(s) Springer ...

Zones Dairy ...

Cow Count  Cow Target DM Hd

Bull Count  Bull Target DM Hd

Avg Wt/HD  Min Drop AF

Drop Sequence  Capacity

Is Disabled ☐

Pen Settings User Fields Summary

15. Click **Save**.



**NOTE:** When creating a pen, setting up **feeding(s)** for that pen is not required. For instructions on adding feedings to a pen, refer to the “Adding Feeding(s) to an Existing Pen” section of this manual.

## ADDING FEEDING(S) TO AN EXISTING PEN

- For your reference, go to the recipe that you would like to assign to a pen. Check to see if it is currently “active.”

Home

Pens

Recipes

Short Na... ^	Actual DM %	DM HD	AF HD	Premix	Is Active (Primary)
Close Up	51.20 %	26.01	50.80	<input type="checkbox"/>	<input type="checkbox"/>
Close Up 2	48.81 %	23.35	47.85	<input type="checkbox"/>	<input type="checkbox"/>
Far Off	41.98 %	27.76	66.12	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fresh	59.13 %	39.16	66.22	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Heifer	43.53 %	20.81	47.80	<input type="checkbox"/>	<input type="checkbox"/>
High Cow	57.46 %	56.90	99.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Premix 1	87.36 %	21.84	25.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Springer	43.53 %	20.81	47.80	<input type="checkbox"/>	<input type="checkbox"/>

Notice that in this example that the “Springer” recipe is currently NOT active (i.e. not being fed).

Now assign a recipe to a pen.

- Click on the **Pens** icon from the ribbon bar.



- Click on the pen that you would like to add feeding(s) to.
- Navigate to the **Feedings** panel.
- Click on the **New** icon from the Feedings toolbar.



A blank row will appear.

Feedings									
Feeding Period	Recipe	DM/HD	AF/HD	Alt Recipe	DM Drop Qty	AF Drop Qty	Override AF Qty	Start Time	Equipment
		0.00	0.00		0	0	0	12:00 AM	

Enter the necessary information for the feeding.

<b>Feeding Period</b>	Breaks the feedings into groups (periods) (i.e. AM, PM periods). FW will need at least one period (minimum). Multiple periods are optional (all feedings for the day can be in one period if desired).
<b>Recipe</b>	Sets the recipe that you would like to feed. Each feeding requires a recipe to be assigned.

<b>DM/HD</b>	Targeted Dry Matter lbs. per head per feeding
<b>AF/HD</b>	Targeted As Feed lbs. per head per feeding
<b>Alt Recipe</b>	Alternate recipe. Refer to the “Alternate Recipes” section of this manual for more information on setting up alternate recipes.
<b>DM Drop Qty</b>	Targeted Dry Matter lbs. for the feeding
<b>AF Drop Qty</b>	Targeted As Feed lbs. for the feeding
<b>Override AF Qty</b>	Allows for a specific As Feed quantity to be fed (will override the AF Drop Qty amount). Refer to the “Setting up Override Feedings” section of this manual.
<b>Start Time</b>	Sets the targeted feeding time
<b>Equipment</b>	Sets the specific equipment (i.e. mixer) to feed the load

\*Items noted in pink are required.

Feeding Period	Recipe	DM/HD	AF/HD	Alt Recipe	DM Drop Qty	AF Drop Qty	Override AF Qty	Start Time	Equipment
AM	Springer	30.00	68.92		3,000	6,892	0	05:00 AM	J&A 1171



**NOTE:** If an **Alternate Recipe** is being fed, you will see a recipe name listed under “Alt Recipe.” If the Alt Recipe is blank, than the primary recipe (Recipe column) will be fed.

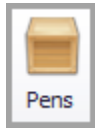
6. Click **Save**.



**WARNING:** The targeted DM Intake quantity (DM/HD) for a pen is NOT dependent on the “recipe quantity” noted on the Recipes tab. To modify targeted intake amounts, change the feed quantity on the Pens tab NOT on the Recipes tab.

## REMOVING A FEEDING FROM A PEN

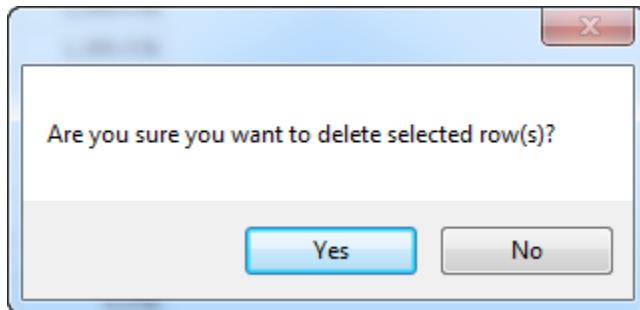
1. Click on the **Pens** icon from the ribbon bar.



2. Click on the pen that you would like to remove the feeding from.
3. Navigate to the **Feedings** panel.
4. Click on the feeding you would like to delete.
5. Click the **Delete** icon from the Feedings toolbar.



6. A delete confirmation box will appear. If you would like to delete the feeding, pick "Yes."

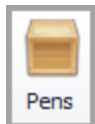


## SETTING UP OVERRIDE FEEDINGS



**NOTE:** In FeedWatch Versions 7.5 and 7.6 “Override Feedings” were setup as “Max/Balance” feedings.

1. Click on the **Pens** icon from the ribbon bar.



2. Click on the pen that you would like to modify.
3. Navigate to the **Feedings** panel.
4. In the **Override AF Qty** column, type in the exact amount of feed you want to feed (for this feeding only).

Feedings									
Type in amount here									
Feeding Period	Recipe	DM/HD	AF/HD	Alt Recipe	DM Drop Qty	AF Drop Qty	Override AF Qty	Start Time	Equipment
I AM	Springer	30.00	68.92		3,000	6,892	5000	05:00 AM	J&A 1171

5. Click **Save**.

A second feeding in this period will automatically be created. This is a “balance” feeding. The balance feeding will consume ALL the remaining targeted feed for this period.

Feedings									
Balance feeding									
Feeding Period	Recipe	DM/HD	AF/HD	Alt Recipe	DM Drop Qty	AF Drop Qty	Override AF Qty	Start Time	Equipment
AM	Springer	21.76	50.00		2,176	5,000	5000	05:00 AM	J&A 1171
AM	Springer	8.24	18.92		824	1,892	0	05:01 AM	J&A 1171



Feedings										
Feeding Period	Recipe	DM/HD	AF/HD	Alt Recipe	DM Drop Qty	AF Drop Qty	Override AF Qty	Start Time	Equipment	
AM	Springer	21.76	50.00		2,176	5,000	5000	05:00 AM	J&A 1171	Max feeding
AM	Springer	8.24	18.92		824	1,892	0	05:01 AM	J&A 1171	Balance feeding

In this example:

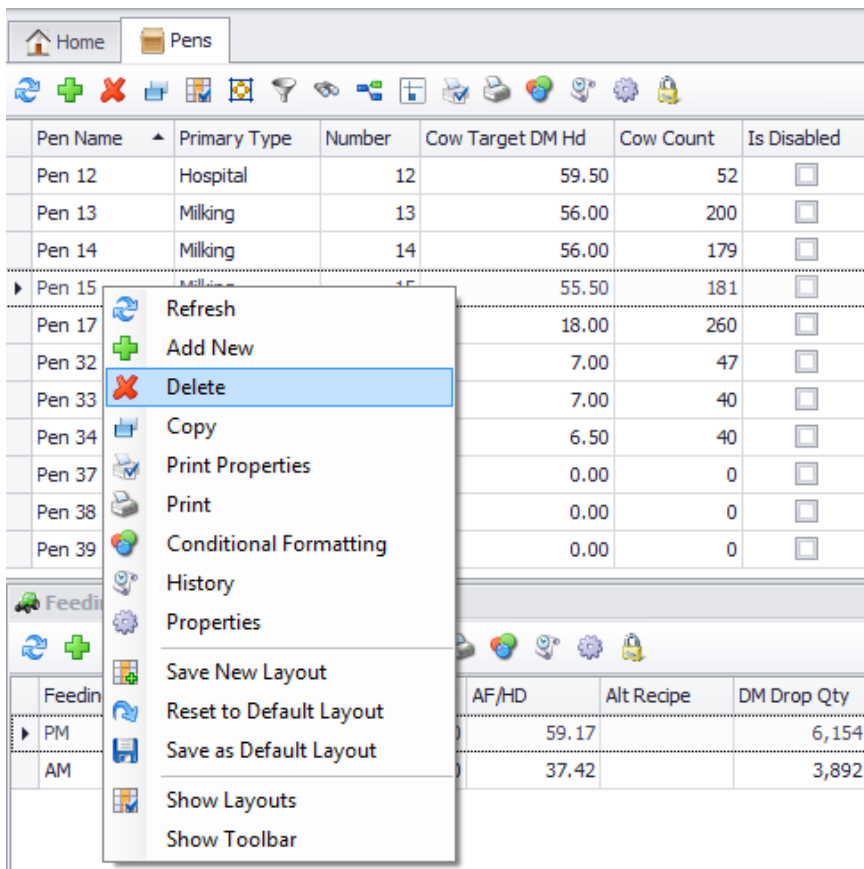
- **Override/Max feeding**
  - 21.76 lbs. DM/HD will be fed
  - 5,000 lbs. AF feed will be fed
  - This feeding amount will not change day to day (assuming the pen is targeted at least 21.76 lbs DM in this period)
- **Balance feeding**
  - 8.24 lbs. DM/HD will be fed
  - 1,892 lbs. AF feed will be fed
  - This feeding amount may change day to day (depending on pen count, recipe makeup, ingredient DM %, etc.)

## DELETING A PEN

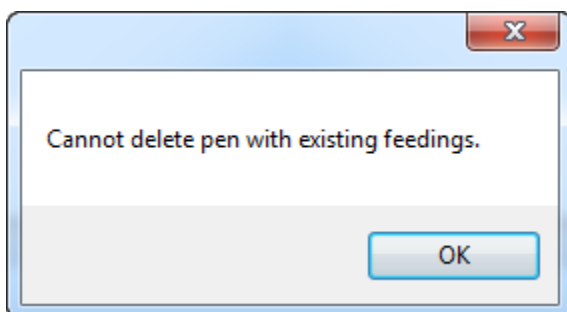
1. Click on the **Pens** icon from the ribbon bar.



2. From the pens list, RIGHT-click on the recipe that you would like to delete from FeedWatch. A fly-out menu will appear.
3. Pick **Delete**.

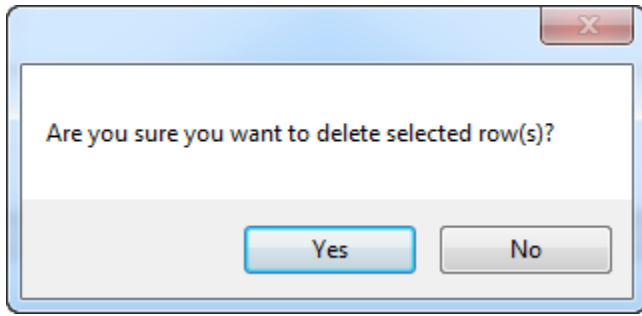


If the pen currently has feeding(s) assigned to the pen, you will see the following message.



If needed, follow the steps noted in the previous section, "Removing a Feeding from a Pen." After removing the existing feeding(s) from the pen, you will then be able to delete the pen.

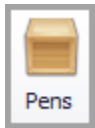
4. A delete confirmation box will appear. If you would like to delete the pen, pick “Yes.”



## COPYING A PEN

If you would like to create a pen that is very similar to an existing pen, you do not need to create the new pen. Rather, you could simply copy an existing pen and then change the new pen accordingly.

1. Click on the **Pens** icon from the ribbon bar.



2. From the pens list, click on the pen that you would like to copy.
3. Click on the **Copy** icon from the Pens toolbar.



The new pen will be created and added to the list of pens.

Home

Pens

Pen Name	Primary Type	Number	Cow Target DM Hd	Cow Count	Is Disabled
Pen 32	Heifer	32	7.00	47	<input type="checkbox"/>
Pen 33	Heifer	33	7.00	40	<input type="checkbox"/>
Pen 34	Heifer	34	6.50	40	<input type="checkbox"/>
Pen 37	Heifer	37	0.00	0	<input type="checkbox"/>
Pen 38	Heifer	38	0.00	0	<input type="checkbox"/>
Pen 39	Breeding Heifer	39	0.00	0	<input type="checkbox"/>
Pen 39 (1)	Breeding Heifer	100	0.00	0	<input type="checkbox"/>

4. From the pen list, click on the “new” pen that was just created.
5. Then, modify the new pen as desired (i.e. new name, different description, different feedings, etc.).
6. Click **Save**.

# FEEDING SCHEDULE

## FEEDING SCHEDULE OVERVIEW



**NOTE:** The "Feeding Schedule" was termed "Mixes/Loads & Drops" in FeedWatch Versions 2 and 7.

The main components of the Feeding Schedule tab include:

- **Main grid** – where you make feeding modifications
- **Periods panel** – where you pick what period to view
- **Feeding Schedule panel** – where you view the actual feeding schedule (view only, can NOT make changes in this panel)
- **Feeding Statistics panel** – provides additional information about the entire feeding period



**TIP:** If you would like to see the details of a specific load (i.e. individual ingredient quantities), open the "Feed Sheet report" to view that information.

The screenshot shows the FeedWatch Feeding Schedule interface. It includes a 'Periods' panel on the left, a 'Main Grid' in the center, a 'Feeding Schedule' panel at the bottom, and a 'Feeding Statistics' panel on the right. Arrows point from text labels to each of these four panels.

**Periods Panel:** Shows a list of feeding periods with columns for Pen, Recipe, Alt Recipe, Cow Count, DM Drop Qty, AF Drop Qty, Drop Sequence, Start Time, Equipment, and Zone.

Pen	Recipe	Alt Recipe	Cow Count	DM Drop Qty	AF Drop Qty	Drop Sequence	Start Time	Equipment	Zone
Pen 01	Far Off		151	3,020	7,193	4	07:51 AM	Wagon	Dairy
Pen 02	Far Off		115	9,292	12,509	10	07:52 AM	Wagon	Dairy
Pen 04	Far Off		156	2,176	5,688	11	07:50 AM	Wagon	Dairy
Pen 07	High Cow		156	4,134	7,194	14	02:02 PM	Wagon	Dairy
Pen 08	High Cow		182	4,641	8,077	15	06:40 AM	Wagon	Dairy
Pen 10	Close Up	Close Up 2	56	1,624	3,327	19	07:00 AM	Wagon	Dairy

**Main Grid:** Shows a detailed view of the feeding schedule with columns for Pen, Target AF Qty, Actual AF Qty, Target DM Qty, Target Start Time, Adjusted Start Time, Actual Start Time, and Sequence.

Pen	Target AF Qty	Actual AF Qty	Target DM Qty	Target Start Time	Adjusted Start Time	Actual Start Time	Sequence
Pen 100	5,000	0	2,176	5:00 AM			1
Pen 100	1,892	0	824	5:01 AM			

**Feeding Schedule Panel:** Shows a detailed view of the feeding schedule with columns for Pen, Target AF Qty, Actual AF Qty, Target DM Qty, Target Start Time, Adjusted Start Time, Actual Start Time, and Sequence.

Pen	Target AF Qty	Actual AF Qty	Target DM Qty	Target Start Time	Adjusted Start Time	Actual Start Time	Sequence
Pen 07	8,101	0	4,655	6:20 AM			2
Pen 13	7,657	0	4,400	6:00 AM			2
Pen 12	2,217	0	1,274	6:00 AM			2

**Feeding Statistics Panel:** Shows a summary of the feeding period with columns for Period Totals/Averages and Load Summary.

Period Totals/Averages			
Total Loads	6		
Total Drops	13		
Single Loads	0		
Over Splits	1		
Soft Splits	0		
Fit Splits	0		
Total Feed	87,744		
Load Avg.	14,624		
Drop Avg.	6,750		

LOAD SUMMARY			
Seq#	Total	Drops	Load
1	6,892	2	14
2	17,975	3	36
3	8,077	1	16

## MULTIPLE FEEDINGS ON ONE LOAD

For two (or more) feedings to be combined on the same load, the following criteria must be met for those feedings:

- ✓ Assigned the same **recipe**
  - ✓ Assigned to the same **equipment**
  - ✓ **Start times** must be within the “time window” allotment (30 minutes by default)
  - ✓ Must be in the same **zone**
  - ✓ AF quantity must not exceed **mixer capacity**
- (Reminder: recipe density factor will be taken into account when determining if the feedings will fit on one load)



**NOTE:** To view the “Time Window” setting, go to **Setup > Companies tab > Company panel**.

*Example:*

Feeding Time Window Mins

## VIEWING METHOD

A new feature added in FeedWatch Version 8 is the feeding schedule viewing method. The feeding schedule panel can be viewed using two methods:

- **Current**
- **Next**

### “CURRENT” VIEWING METHOD

Displays the feeding schedule based on how the schedule is currently being fed.

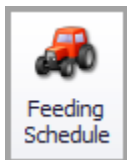
### “NEXT” VIEWING METHOD

Previews the next time the period will be fed (either that same day or the next day).

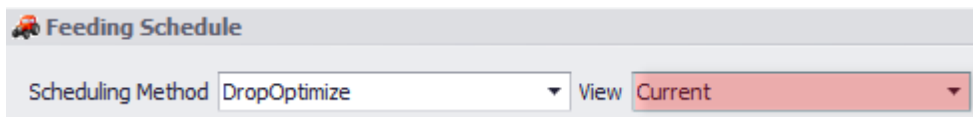
### VERIFY THE VIEWING METHOD

The schedule that the two methods display could be the same (depending on whether or not the period feeding has started). However, if changes were made to the schedule after the feeding started, then the “next” period method will show the updated information, not the “current” method.

1. Click on the **Feeding Schedule** icon from the ribbon bar.



2. Navigate to the **Feeding Schedule** panel.
3. Review the **View** method setting.



## SCHEDULING METHOD

Each feeding schedule period has two “scheduling optimizing methods.”

- **Drop Optimize**
- **Load Optimize**

For each period, an optimizing method will need to be selected. Each period is independent of each other. Therefore, periods do not have to have the same optimizing method selected.

### “DROP OPTIMIZE” SCHEDULING METHOD

---

The **drop** optimizing method attempts to minimize the amount of DROPS in a period.

### “LOAD OPTIMIZE” SCHEDULING METHOD

---

The **Load** optimizing his method attempts to minimize the amount of LOADS in a period.

### VERIFY THE SCHEDULING METHOD

---

1. Click on the **Feeding Schedule** icon from the ribbon bar.



2. Navigate to the **Feeding Schedule** panel.
3. Review the **Scheduling Method** setting.





## SCHEDULED LOAD (EXAMPLE)

Below are some examples of how a load will appear in the **Feeding Schedule** panel.

*Example: Shows the mix/load title only, feeding details are collapsed:*

▶ Mix: AM - 1 - Wagon - Springer - 5,555
▶ Mix: AM - 2 - Wagon - High Cow - 17,975
▶ Mix: AM - 3 - Wagon - High Cow - 8,077
▶ Mix: AM - 4 - Wagon - Close Up 2 - 7,577
▶ Mix: AM - 5 - Wagon - Far Off - 40,029
▶ Mix: AM - 6 - Wagon - High Cow - 7,194

**Period**      **Load number**      **Equipment**      **Recipe**      **Load AF qty**

*Example: "Expanding" the first two loads will yield the following:*

Pen	Target AF Qty	Actual AF Qty	Target DM Qty	Target Start Time	Adjusted Start Time	Actual Start Time	Sequence
▼ Mix: AM - 1 - Wagon - Springer - 5,555							
▼ Load: 1 - Wagon - 5,555							
Pen 100	5,555	0	2,418	5:00 AM			1
▼ Mix: AM - 2 - Wagon - High Cow - 17,975							
▼ Load: 1 - Wagon - 17,975							
Pen 07	8,101	0	4,655	6:20 AM			2
Pen 12	2,217	0	1,274	6:00 AM			2
Pen 13	7,657	0	4,400	6:00 AM			2



**TIP:** The second line item can be removed if desired (which is a load grouping). This load grouping is beneficial if a stationary mixer is used with two delivery trucks. To remove the group, expand the "group" icon and then remove the "Load" grouping.



**Remove "Load" grouping**



**"Load" group is removed**

## LOAD MODIFICATIONS

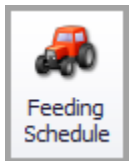
There are three major feeding scheduling features that can be used to make modifications to load(s).

- Change feeding start time
- Change feeding drop order
- Change mix sequence of a load

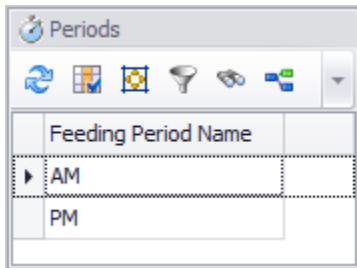
### CHANGING THE START TIME OF A FEEDING

The following example will show how changing the **start time** for a feeding will force the feeding to be fed on a different load (with other feedings).

1. Click on the **Feeding Schedule** icon from the ribbon bar.



2. Click on the desired period from the **Periods** panel.



Note how the feedings are setup currently via the **Feeding Schedule** panel.

**Feeding Schedule**

Scheduling Method
DropOptimize
View
Next

Mix

Pen	Target Start Time	Target AF Qty	Pen Number
Mix: AM - 1 - Wagon - Lactating - 32,707			
Pen 12	4:00 AM	5,532	31
Pen 13	4:00 AM	16,525	30
Pen 14	4:00 AM	10,650	32
Mix: AM - 2 - Wagon - Lactating - 13,018			
Pen 15	6:00 AM	3,568	33
Pen 16	6:00 AM	4,882	34
Pen 17	6:00 AM	4,568	35
Mix: AM - 3 - Wagon - Lactating - 38,788			
Pen 36	4:00 AM	3,556	36

Now we will force Pen 14 to be fed on the second load, not the first. To do this, we will change the **Target Start Time**.

- To change **Target Start Time** of a feeding, go to either the Feeding Schedule tab or the Pens tab to do so (in this example it will be modified to 6:00 AM).

Feeding Schedule				
Pen	Start Time	Recipe	Alt Re	
Pen 12	04:00 AM	Lactating		
Pen 13	04:00 AM	Lactating		
Pen 14	04:00 AM	Lactating		
Pen 15	06:00 AM	Lactating		

Change the start time here

Home Pens **Feeding Schedule**

Pen Name	Is Disabled	Primary Type	Nu
Pen 12	<input type="checkbox"/>	Preg	
Pen 13	<input type="checkbox"/>	Preg	
▶ Pen 14	<input type="checkbox"/>	Preg	

**Feedings**

Feeding Period	Recipe	Start Time
▶ AM	Lactating	04:00 AM

**Or change the start time here**

- Click **Save**.

Notice that the feeding moves to the appropriate load as soon as the new start time is saved.

**Feeding Schedule**

Scheduling Method: DropOptimize

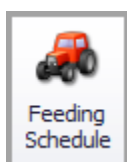
Mix

Pen	Target Start Time	Target AF Qty
▶ Mix: AM - 1 - Wagon - Lactating - 22,057		
Pen 12	4:00 AM	5,532
Pen 13	4:00 AM	16,525
▶ Mix: AM - 2 - Wagon - Lactating - 23,668		
Pen 14	6:00 AM	10,650
Pen 15	6:00 AM	3,568
Pen 16	6:00 AM	4,882
Pen 17	6:00 AM	4,568

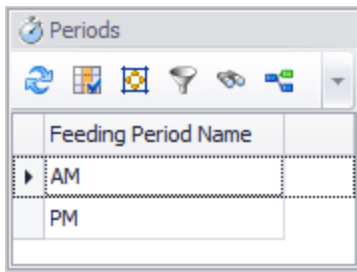
**After changing the Pen 14 feeding "start time" to 6:00 AM, the feeding automatically moves to the second load.**

## CHANGING THE DROP ORDER OF A FEEDING

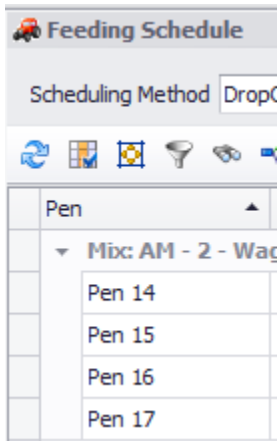
- Click on the **Feeding Schedule** icon from the ribbon bar.



- Click on the desired period from the **Periods** panel.



Note how the drop order of the feedings is setup currently via the **Feeding Schedule** panel.



Now we will change the drop order/sequence so that the feedings will be dispensed out of the mixer in the following order 14, 16, 17, 15. Right now, the order is set to 14, 15, 16, 17. To do so, we will need to change the “drop sequence” number for Pen 15.

- To change **Drop Sequence** number of a pen, go to either the Feeding Schedule tab or the Pens tab to do so. The drop sequence number for Pen 15 will need to be **greater** than the drop sequence number for Pens 14, 16, and 17.



**NOTE:** If multiple pens are on the same load, FW will drop to the pen with the **smallest** drop sequence number.

Pen	Drop Sequence
Pen 12	2
Pen 13	1
Pen 14	4
Pen 15	3
Pen 16	12
Pen 17	13

**Change the drop sequence number here**

Home Pens Feeding		
Pen Name	Drop Sequence	
Pen 12	2	
Pen 13	1	
Pen 14	4	
Pen 15	3	
Pen 16	12	
Pen 17	13	

Or change the drop sequence number here

- Click **Save**.

Notice that the drop sequence of the feedings has changed. Now, the Pen 15 feeding is the last drop on the load.

## Feeding Schedule

Scheduling Method DropOptimize

Pen

Pen Number

▼ Mix: AM - 1 - Wagon - Lacta

Pen 13

13

Pen 12

12

▼ Mix: AM - 2 - Wagon - Lacta

Pen 14

14

Pen 16

16

Pen 17

17

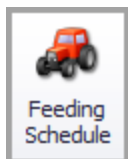
Pen 15

15

After changing the "drop sequence" number for Pen 15, the feeding moves to the last drop on the load.

## CHANGING THE MIX SEQUENCE OF A LOAD

- Click on the **Feeding Schedule** icon from the ribbon bar.



- Click on the desired period from the **Periods** panel.

Periods	
Feeding Period Name	
AM	
PM	

Note the mix sequence of the first two loads in the period via the **Feeding Schedule** panel.

## Feeding Schedule

Scheduling Method DropOptimize

Pen	Target Start Time	Pen Num
▼ Mix: AM - 1 - Wagon - Lactating - 22,057		
Pen 12	4:00 AM	
Pen 13	4:00 AM	
▼ Mix: AM - 2 - Wagon - Lactating - 26,508		
Pen 14	6:00 AM	
Pen 15	6:00 AM	
Pen 16	6:00 AM	
Pen 17	6:00 AM	
▼ Mix: AM - 3 - Wagon - Lactating - 38,789		

Now we will change the Pen 12, 13 load to be second on the list. To “move” the load to a different order the **Target Start Time** will need to be changed.

- To change **Target Start Time** of a feeding, go to either the Feeding Schedule tab or the Pens tab to do so (in this example it will be modified to 6:45 AM).

Feeding Schedule			
Pen	Start Time	Drop Sequ	
Pen 12	04:00 AM		
Pen 13	04:00 AM		

**Change the start time here**

- Click **Save**.

Notice that the feedings move to be the second load for the period.

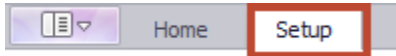
Feeding Schedule			
Scheduling Method		DropOptimize	View
Pen	Target Start Time	Pen Number	
▼ Mix: AM - 1 - Wagon - Lactating - 26,508			
Pen 14	6:00 AM	14	
Pen 15	6:00 AM	15	
Pen 16	6:00 AM	16	
Pen 17	6:00 AM	17	
▼ Mix: AM - 2 - Wagon - Lactating - 22,057			
Pen 12	6:45 AM	12	
Pen 13	6:45 AM	13	
▼ Mix: AM - 3 - Wagon - Lactating - 38,788			



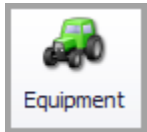
# EQUIPMENT

## ADDING NEW EQUIPMENT

1. Click the **Setup** option at the top of the FeedWatch application.



2. Click on the **Equipment** icon from the ribbon bar.



3. Click on the **New** icon from the Equipment toolbar.



4. Navigate to the **Settings** panel. Enter the necessary information.

<b>Equipment Name</b>	Name of the equipment
<b>Min Scale Detect</b>	This is the smallest weight you want the scale to “sense.” If the weight goes below this number then you will receive an [ACKNOWLEDGE REQUIREMENT] message on the indicator and display. The indicator will not switch to the next ingredient until you press the [ADVANCE] option on the indicator/mobile computer.
<b>Max Delivery Capacity</b>	Sets the largest delivery possible with this equipment.
<b>Min Mix Capacity</b>	Sets the smallest amount of TMR feed that you will permit the equipment to mix.
<b>Max Mix Capacity</b>	Sets the limit of TMR feed that you will permit the equipment to mix.
<b>Min Premix Capacity</b>	Sets the smallest amount of PREMIX feed that you will permit the equipment to mix.
<b>Max Premix Capacity</b>	Sets the limit of PREMIX feed that you will permit the scale to mix.
<b>Load Size Tolerance</b>	Amount of feed that the feeder will be allowed to mix that’s OVER the mix/premix capacity.
<b>Multi Pickup</b>	WeighRite equipment setting
<b>Multi Delivery</b>	WeighRite equipment setting
<b>Type</b>	Type of equipment (i.e. mobile, stationary, delivery, auger, WeighRite, etc.)
<b>Bulk Tank Range</b>	WeighRite equipment setting
<b>Scale</b>	Sets the specific “scale indicator” you are using for this equipment.
<b>Modem</b>	Sets the specific “modem” you are using for this equipment.
<b>Display</b>	Sets the specific “display” you are using for this equipment.
<b>Communication Disabled</b>	Checked = communication will be TURNED OFF for this equipment.
<b>Omit History</b>	Checked = does not send historical files to the equipment during an equipment export.
<b>User Fields XML</b>	Additional user settings (optional).

Example of Equipment settings:

**Settings**

Equipment Name: Wagon

Make:

Model:

Year: 0

VIN:

Min Scale Detect: 50 lb      Max Delivery Capacity: 0 lb

Min Mix Capacity: 1,000 lb      Max Mix Capacity: 50,000 lb

Min Premix Capacity: 3,000 lb      Max Premix Capacity: 60,000 lb

Load Size Tolerance: 200      Multi Pickup: ☐

Multi Delivery: ☐

Type: Mobile Mixer

Bulk Tank Range: 1

Scale: Scale 1 - 5500

Modem: Wagon - FreeWave

Display: Display 1 - Grayhill

Communication Disabled: ☐      Omit History: ☐

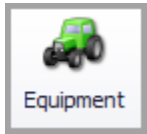
**User Fields XML**

All	
Cost	
Date Manufactured	
Delivery Truck	<input type="checkbox"/>
Equipment Name	
Number Wheels	
Scale Language	
Start Time	
Weight	

5. Click **Save**.

## DELETING EQUIPMENT

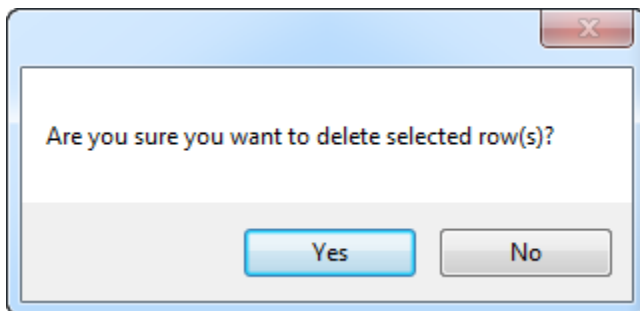
1. Click on the **Equipment** icon from the ribbon bar.



2. From the equipment list, RIGHT-click on the equipment that you would like to delete from FeedWatch. A fly-out menu will appear.
3. Pick **Delete**.



4. A delete confirmation box will appear. If you would like to delete the pen, pick "Yes."



# COMMUNICATION SERVICES

## COMMUNICATION OVERVIEW

This section will detail the communication services utility in FeedWatch. These services include; communication with equipment, scheduled tasks, and DC 305 data imports. Answers to common questions regarding communication services will be covered in this section, such as:

- Is the communication service utility currently running?
- Is the equipment communicating with the office?
- How to I export the desktop data to the equipment?
- When was the last time information was exported to the equipment?
- When was the last time the equipment has sent data to the office?
- Is there a data export to the equipment in process?
- Is the DC 305 data importing into FeedWatch?
- Is the task scheduler service running?
- Have there been any communication errors?
- What are the detailed communication logs for the last day?

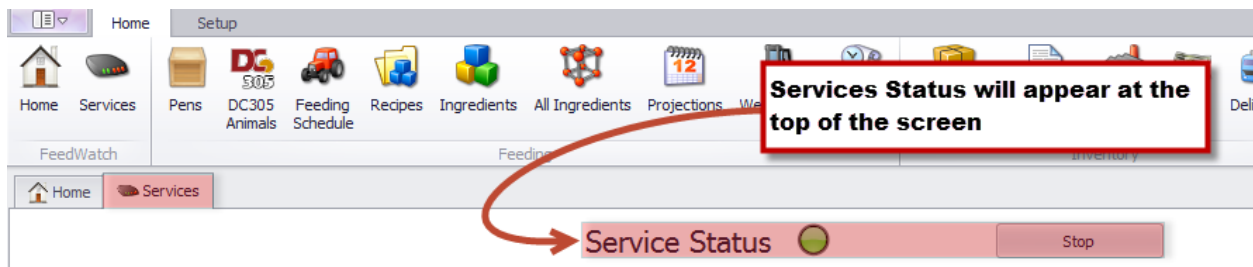
## SERVICE STATUS

1. Click on the **Services** icon from the ribbon bar.



2. Check the top of the **Service tab** window.

- **Stop/Start toggle icon** – turns the services either on or off. This toggle controls the all of the FW services (communication, imports, scheduled tasks)
- If the toggle icon is displayed as “Stop,” then the services are currently **RUNNING**.
- If the toggle icon is displayed as “Start,” then the services are currently **STOPPED**.



Service Status 

Stop

← **Services are currently RUNNING**

Service Status 

Start

← **Services are currently STOPPED**

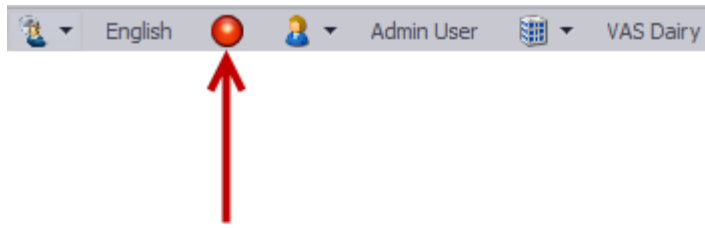
3. Check the top-right of the FeedWatch application. The **Services icon** will be present.

*Example: Services icon with services **running normally***



Services icon  
(normal)

Example: Services icon with services **NOT** running normally



Services icon  
(red flashing icon)

The services icon may flash red due to:

- Services not running
- Communication errors
- Scheduled task(s) failing

## EQUIPMENT COMMUNICATION

1. Click on the **Services** icon from the ribbon bar.



2. Locate the specific mixer that you would like to check the status of.
3. Review the **Queue**, **Last Sent**, and/or **Last Received** information.

<b>In Queue</b>	Indicates the number of equipment data exports (or adjustments) that are waiting to be sent (or are being sent) to the equipment.
<b>Last Sent</b>	Indicates the last <u>successful</u> data export to the equipment (office to equipment). Time stamp will update when the data has been received by the equipment.
<b>Last Received</b>	Indicates the last time any data from the equipment was received by the office FeedWatch computer.

Example: **Equipment communication summary for the “Wagon” equipment (mixer).**



**Wagon -**

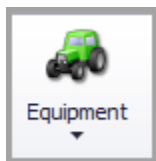
In Queue	Last Sent	Last Received
0	6/17/2013 2:09:55 PM	6/17/2013 2:15:26 PM



**NOTE:** A separate modem will be listed for each equipment modem that is setup in FeedWatch.

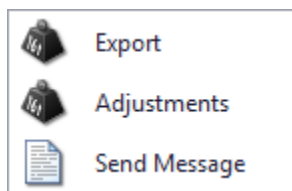
## EXPORTING DATA TO THE EQUIPMENT

1. Click on the **Equipment** icon from the ribbon bar.

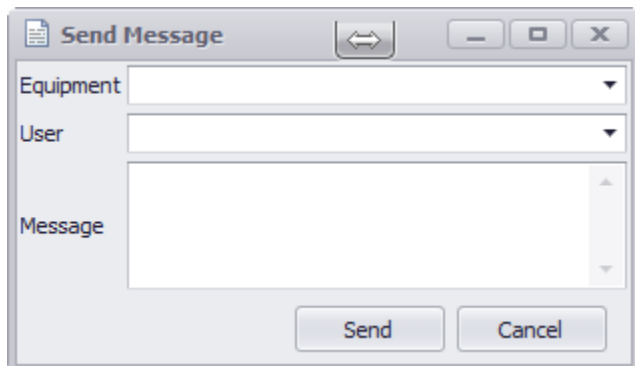


2. Click the option desired.

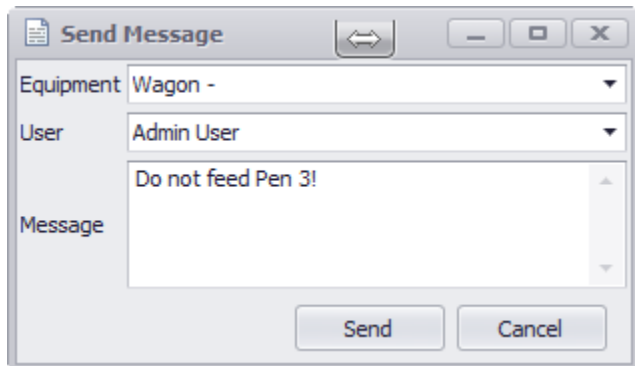
<b>Export</b>	Transfers the full data base information to the equipment.
<b>Adjustments</b>	Transfers any desktop changes that were made to the equipment.
<b>Send Message</b>	Allows a unique message to be sent to the equipment specified. Once received by the equipment, the message will appear on both the scale indicator/mobile computer and the external readout display.



If the Send Message is clicked, a **Send Message** box will appear. Once the message information is completed, simply click “Send” to transfer to the message to the equipment.



*Example: Specifying a message to send to a specific user/equipment*





## SCHEDULED TASKS

1. Click on the **Services** icon from the ribbon bar.



2. Locate the **Scheduled Tasks** summary.
3. Review the **Scheduled**, **Failed**, and/or **Last Run** information.

<b>Scheduled</b>	Indicates the number of scheduled tasks that are remaining to run that day.
<b>Failed</b>	Indicates the number of scheduled tasks that have failed that day.
<b>Last Run</b>	Indicates the last time a scheduled task was initiated (does NOT indicate if the task was completed).

Example: *Scheduled Tasks summary*



### Scheduled Tasks

Scheduled	Failed	Last Run
1	0	6/17/2013 2:26:19 PM

## DC 305 DATA IMPORTS

1. Click on the **Services** icon from the ribbon bar.



2. Locate the **Dairy Comp 305** summary.
3. Review the **Last Count Update** and **Last Item Import** information.

<b>Last Count Update</b>	Displays the last time “pen counts” have successfully been imported into FeedWatch (from DC 305).
<b>Last Item Import</b>	Displays the last time “items” (i.e. animal data) have successfully been imported into FeedWatch (from DC 305).

Example: *Dairy Comp 305 import summary*



**Dairy Comp 305**

Last Count Update	Last Item Import
8/28/2013 8:41:30 AM	8/28/2013 8:42:41 AM

## TASKS LOG / TROUBLESHOOTING

Viewing specific details regarding the communication services can be done via the communication task log. Below are some examples that you may see in the task log history.

1. Click on the **Services** icon from the ribbon bar.



2. Navigate to the **Tasks Log** panel.
3. Expand the **Type: Info** option.



You should see details in the **Message** column. See below for some examples of common messages you may see in the Tasks Log panel.

*Example 1: Successful communication connection* from office to equipment.

Type: Info		
09:13:16 AM	Wagon - FreeWave: ModemDigiXTend [:COM4/57600/8N1/None]:	Successful Response   1 0 0 5 6
09:13:16 AM	Wagon - FreeWave: ModemDigiXTend [:COM4/57600/8N1/None]:	Modem Link Established   16 0 0 5 21

*Example 2: Unsuccessful communication connection* from office to equipment. Communication link established to the equipment modem BUT no response to the scale indicator/mobile computer.

1:18 AM	Wagon - FreeWave: ModemDigiXTend [9159233:COM1/57600/8N1/None]:	Modem Link Established   16 0 0 5 21
1:50:58 AM	Wagon - FreeWave: ModemDigiXTend [9159233:COM1/57600/8N1/None]:	Modem Link Established   16 0 0 5 21
1:50:37 AM	Wagon - FreeWave: ModemDigiXTend [9159233:COM1/57600/8N1/None]:	Modem Link Established   16 0 0 5 21
1:50:17 AM	Wagon - FreeWave: ModemDigiXTend [9159233:COM1/57600/8N1/None]:	Modem Link Established   16 0 0 5 21

*Example 3: Unsuccessful communication connection* from office to equipment. No connection to the equipment modem or scale indicator/mobile computer.

09:11:40 AM	Connect error - Mixer 1 - 8571234
09:11:35 AM	Connect error - Mixer 1 - 8571234
09:11:26 AM	Connect error - Mixer 1 - 8571234
09:11:16 AM	Connect error - Mixer 1 - 8571234
09:11:11 AM	Connect error - Mixer 1 - 8571234

Example 4: Export data **files being transmitted** to the equipment. The amount of rows of data that appear for each equipment export/adjustment will vary (depending on amount of pens, recipes, equipment, etc.).

11:49:35 PM	Wagon - FreeWave: ModemDigiXTend [:COM4/57600/8N1/None]:	PenDailyHistoryRow; PenID: 33; PenCount: 51; AmountAF: 4985; AmountDM: 2859;
11:49:35 PM	Wagon - FreeWave: ModemDigiXTend [:COM4/57600/8N1/None]:	PenDailyHistoryRow; PenID: 33; PenCount: 52; AmountAF: 2695; AmountDM: 1509;
11:49:35 PM	Wagon - FreeWave: ModemDigiXTend [:COM4/57600/8N1/None]:	PenDailyHistoryRow; PenID: 49; PenCount: 48; AmountAF: 2661; AmountDM: 1374;
11:49:34 PM	Wagon - FreeWave: ModemDigiXTend [:COM4/57600/8N1/None]:	PenDailyHistoryRow; PenID: 23; PenCount: 165; AmountAF: 18165; AmountDM: 103;
11:49:34 PM	Wagon - FreeWave: ModemDigiXTend [:COM4/57600/8N1/None]:	PenDailyHistoryRow; PenID: 21; PenCount: 210; AmountAF: 22296; AmountDM: 103;

Example 5: Export has **completed successfully**.

Type	
Date	Message
02:09:55 PM	Wagon - FreeWave: ModemDigiXTend [:COM4/57600/8N1/None] Send completed[vas.AppServices.Logger.WriteInfo]

# DEVICES

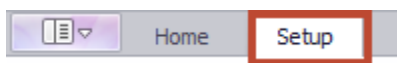
## DEVICES OVERVIEW

Some of the devices that maybe setup in FeedWatch include:

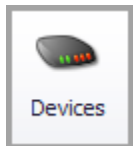
- Modem (office)
- Modem (equipment)
- Scale Indicator/Mobile Computer
- Display

## SETTING UP A NEW DEVICE

1. Click the **Setup** option at the top of the FeedWatch application.



2. Click on the **Devices** icon from the ribbon bar.



3. Click on the **New** icon from the Devices toolbar.



4. Navigate to the **Device** panel. Enter the necessary information.



**NOTE:** The “Settings” portion of the Device panel will update based on the “Type” of device that is selected. Some of the “types” that are available include; modems, read out displays, scale indicator, mobile computer, PLC, etc.

Below are some examples that you will see in FeedWatch for some of the common devices available to be setup:

### Example 1: Device setup for a Freewave Modem

<b>Baud Rate</b>	*Keep set to <b>57600</b> (COM speed....57.6 kbps)
<b>Com Device ID</b>	Check this box only for an office modem device.
<b>Com Device</b>	Freewave modems: enter the 7 digit serial number (do NOT include any dashes) <i>Example: 9001234</i> Xtend modems: leave this field blank
<b>Com Port</b>	Computer com port setting. This port will be hooked up to the office modem.
<b>Connection Retries</b>	The amount of reconnection attempts that will be made to the mixer equipment modem if there is a connection fail. After the connection retries has completed, a connection attempt will occur to the next mixer equipment modem (if there is more than one setup).
<b>Data Bits</b>	*Keep set to <b>8</b> (serial data bits)
<b>Export Retries</b>	If an equipment export fails, this will be the amount of retries that it will attempt to make to complete the export.
<b>Flow Control</b>	If modem cannot receive data, this setting controls the rate at which data is sent to the other modems. *Keep set to <b>NONE</b>
<b>*Modem Disconnect</b>	Time needed to keep a connection active. If time expires without a successful connection, then connection will be aborted. *Keep set to <b>5000</b>
<b>Parity</b>	Used for error checking. *Keep set to <b>NONE</b>
<b>*Polling Cycle Delay</b>	Time between polling multiple modems. *Keep set to <b>4000</b>
<b>*Response Fail Timeout</b>	When a connection fails, amount of time to wait before attempting another connection. *Keep set to <b>5000</b>
<b>Stop Bits</b>	Number of bits to signal end of frame. *Keep set to <b>1</b>

\*In milliseconds

The screenshot shows a software interface for configuring a device. The 'Device' tab is active, showing the following fields:


- Name: Wagon
- Type: Modem Free Wave (dropdown)
- Model: FreeWave
- Active Location: Wagon (dropdown)

Below these fields is a 'Settings' section with a list of parameters and their values:

Parameter	Value
Baud Rate	57600
Com Device ID	<input type="checkbox"/>
Com Device targetComDevice	9001234
Com Port	COM4
Connection Retries	5
Data Bits	8
Export Retries	
Flow Control	None
Modem Disconnect	5000
Parity	None
Polling Cycle Delay	4000
Response Fail Timeout	5000
Stop Bits	1

## Example 2: Device setup for a Mobile Demand computer

<b>Default Load Pct</b>	Not used in FeedWatch Version 8.0
<b>Drop Horn Lbs</b>	When dropping to a pen/location this setting will trigger a horn when the weight falls between the “Drop Horn Lbs” amount and zero.
<b>Drop Lbs Message Pct</b>	% of weight required to be dropped to trigger the LED display to only display the weight.
<b>Drop Message Time Seconds</b>	Amount of time (in seconds) that the drop instructions will scroll across the LED display. After this time period, the display will then alternate between showing the drop location and the target weight.
<b>Drop Time Stamp Pct</b>	% of targeted weight dropped that forces FeedWatch to establish the drop “start time.”
<b>Ing Lbs Message Pct</b>	% of weight required to be loaded to trigger the LED display to only display the weight.
<b>Ing Message Time Seconds</b>	Amount of time (in seconds) that the loading instructions will scroll across the LED display. After this time period, the display will then alternate between showing the ingredient location and the target weight.
<b>Ing Timestamp Pct</b>	% of targeted weight loaded to force FeedWatch to establish the ingredient loading “start time.”
<b>Is Touch Scale</b>	Checked = Will communicate with a “touch” computer/indicator. <i>Example:</i> Mobile Demand 7200, Avery Weigh-Tronix 3060 Un-checked = Will communicate with a “non-touch” computer/indicator. <i>Example:</i> GSE 5500
<b>LED Scroll Speed</b>	The rate at which the information scrolls on the outside LED display. (1=slowest, 5=fastest)
<b>Load Done Lbs</b>	The amount of feed that FeedWatch will allow remaining in the mixer after the last drop of the load. If the amount of feed remaining in the mixer is less than this setting, then FeedWatch will consider the load completed after the last drop of the load.
<b>Load Horn Lbs</b>	When loading feed into the mixer, this setting will trigger a horn when the ingredient weight falls between the “Load Horn Lbs” amount and zero. This is an optional setting. Set to zero if you <u>aren’t</u> using a Self-Loading Mixer.
<b>Load Size Tolerance</b>	Not used in FeedWatch Version 8.0
<b>Location Display</b>	Checked = Will show ingredient name, then ingredient location on the LED display. <i>Example:</i> Corn Silage - Pile 1 Un-checked = Will show ingredient name only on the LED display. <i>Example:</i> Corn Silage *This is a global setting for ALL ingredients in FeedWatch.
<b>Rounding Lbs</b>	Amount that the scale will count by when showing weight.


**Device**
⌵
✕

Name

Type

Model

Active Location

Settings

All

Baud Rate	
Com Port	
Data Bits	
Default Load Pct	100 %
Display Type	
Drop Horn Lbs	200
Drop Lbs Message Pct	25 %
Drop Message Time Seconds	25
Drop Time Stamp Pct	10 %
Flow Control	
Ing Lbs Message Pct	25 %
Ing Message Time Seconds	5
Ing Timestamp Pct	25 %
Is Touch Scale	<input type="checkbox"/>
LED Scroll Speed	5
Load Done Lbs	100
Load Horn Lbs	200
Load Size Tolerance	0
Location Display	<input checked="" type="checkbox"/>
Parity	
Rounding Lbs	5
Stop Bits	



Example 3: Device setup for a Grayhill LED Display

The screenshot shows a 'Device' configuration window. At the top, there are four fields: 'Name' (Display 1), 'Type' (Display Grayhill), 'Model' (Grayhill), and 'Active Location' (Wagon). Below these is a 'Settings' section with a table of parameters.

Settings	
All ^	
Baud Rate	
Com Port	
Data Bits	
Display Type	LED_8x6
Flow Control	
Max Display Characters	12
Max Message Characters	40
Parity	
Stop Bits	

# REPORTS

## FEEDWATCH V8 REPORTING OVERVIEW

FeedWatch Version 8 offers many new reporting improvements and features. Some of these enhancements include:

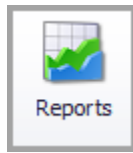
- “Interactive” report creation
- Multiple report “types” (i.e. *page* report and *grid* report options)
- Conditional formatting
- Custom calculations
- More user friendly method to modify existing reports



**TIP:** Reports can be setup to be automatically emailed in FeedWatch. For more details on setting up report(s) to be automatically emailed, refer to the “Task Scheduler” section of this manual.

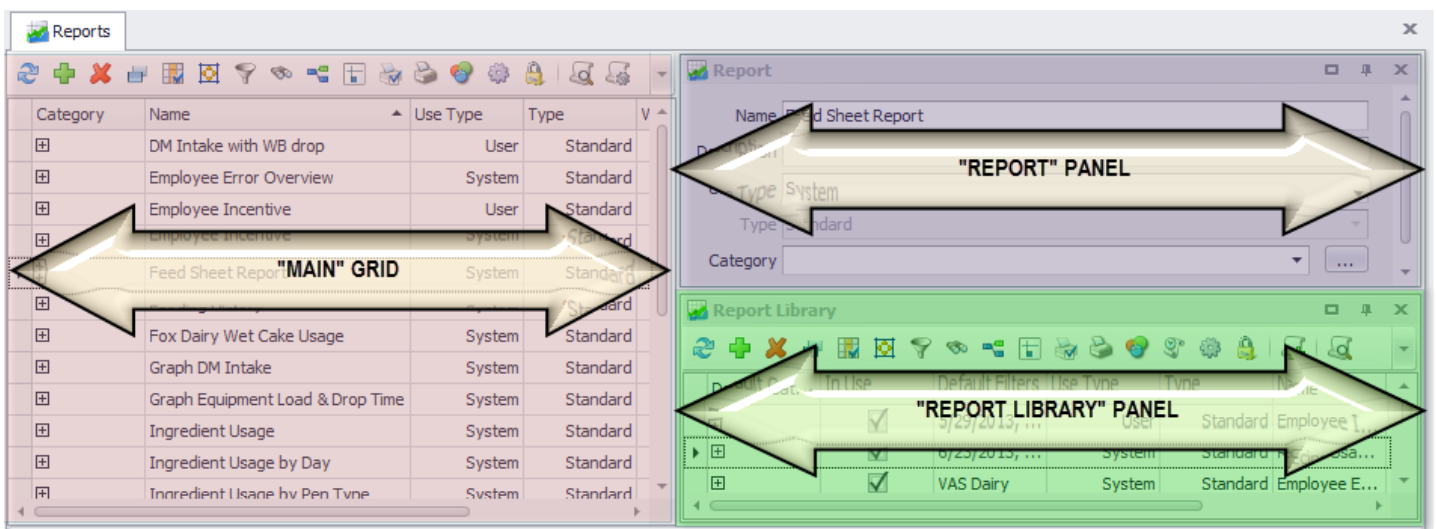
## REPORT TAB

To view information regarding FeedWatch reports, open the report tab by clicking the **Reports** icon from the ribbon bar.



The **Reports** tab is divided into 3 sections:

<b>Main grid</b>	Lists the available reports to pick from (for the current user and company).
<b>Report panel</b>	Per the report selected from the main grid, the report panel allows modification of the report settings (such as.....Name, Description, Use Type, Design Type, Category).
<b>Report library panel</b>	Lists all “system” and “user” reports in the database.



## REPORT FILTERS

The filters discussed in this section apply to the query/queries used in a report. The goal of applying a filter is to narrow the scope of the data that the query will return (*example*: applying a filter to ONLY return data from the last two weeks).

### FILTER SETTING OPTIONS

Filters can be modified from within the main grid by clicking the [+] (from the *Category* column). Clicking the [+] will show a **Filters** sub-grid that will (by default) show two bands of information:

- Column
- Values

Employee Incentive		User	Standard	0
Filters				
Column		Values		
Sequence	Column	Operator	Value	Or
0	Report Date	between	5/29/2013, 6/29/2013	<input type="checkbox"/>
0	Company Name	=	VAS Dairy	<input type="checkbox"/>
1	User Name	=	Miguel	<input type="checkbox"/>

There is a third band that is also available. This is the **Defaults** band. It is automatically shown when adding a new column. The Defaults band can also be shown by right-clicking the sub-grid and clicking “Show Defaults” from the fly-out menu. The Defaults band displays the original filter settings for that report.

Filters							
Column		Values			Defaults		
Sequence	Column	Operator	Value	Or	Operator	Value	Or
0	Report Date	between	5/29/2013, 6/29/2013	<input type="checkbox"/>	between	y-1m	<input type="checkbox"/>
0	Company Name	=	VAS Dairy	<input type="checkbox"/>	=	\$company	<input type="checkbox"/>
1	User Name	=	Miguel	<input type="checkbox"/>	=	Miguel	<input type="checkbox"/>

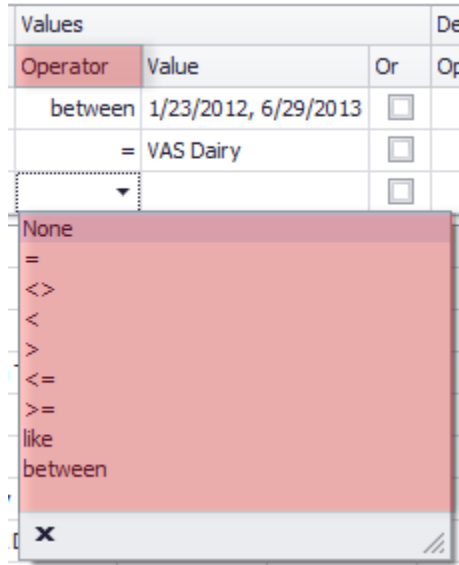
Within the **Values** band, there are 3 main filter setting options:

- Operator
- Value
- Or

Values		
Operator	Value	Or
between	5/29/2013, 6/29/2013	<input type="checkbox"/>
=	VAS Dairy	<input type="checkbox"/>

## “OPERATOR” SETTINGS

The **Operator** option determines the exact quantity, item, or label that the report query will use when running the filter. The values are established initially by what is in the *Defaults* band, but they may be changed on the fly by the user.



<b>None</b>	An operator will not be used for this filter.
<b>=</b>	This operator tests whether a value is EQUAL to a specific value (useful for dates, numbers, and text). <b>NOTE:</b> If using a “text” operator, the text is case-sensitive.
<b>&lt;&gt;</b>	This operator tests whether a value is NOT equal to a specific value (useful for dates, numbers, and text). <b>NOTE:</b> If using a “text” operator, the text is case-sensitive.
<b>&lt;</b>	This operator tests whether the value is LESS than a specific value (useful for dates or numbers).
<b>&gt;</b>	This operator tests whether the value is GREATER than a specific value (useful for dates or numbers).
<b>&lt;=</b>	This operator tests whether the value is LESS than or EQUAL to a specific value (useful for dates or numbers).
<b>&gt;=</b>	This operator tests whether the value is GREATER than or EQUAL to a specific value (useful for dates or numbers).
<b>like</b>	This operator tests whether the value is similar to a specific value (useful for text). Text that is matched is not case-sensitive. Partial matches can be performed using an asterisk (*) on either side (or on both sides). <i>Example:</i> If the filter is [Ingredient Name] [Like] [corn*], then the filter would match values that start with corn. Such as “corn” OR “Corn Silage” OR “CORN GLUTEN,” etc.
<b>between</b>	This operator tests the range that the filtered values will be within. The value should be 2 different numerical values separated with a comma ( <i>example:</i> 1,10). Each of the test values are “inclusive.” This means that they are included in the range to test. <i>Example:</i> If the filter is [Between 1,10], then the query will return results that do include values 1 and 10.

## "VALUES" SETTINGS

The **Value** option determines the exact quantity, item, or label that the report query will use when running the filter. The values are established initially by what is in the *Defaults* band, but they may be changed on the fly by the user. The value can either be an exact value, or a value that will later be calculated when running the report preview. The user can click the drop-down in the **Value** field to pick from available values. If the operator is [between], then the user will be able to set the lower and upper bounds of the range. If the column is a date, then the user will be able to pick dates from a calendar. If the operator is anything else, then the dropdown will contain all possible values.

For example, if the filter is [Recipe Name] [=], then the Value dropdown will provide a list of all of the recipes to pick from. The user may also choose to key in a value.

Filters							
Column		Values			Defaults		
Sequence	Column	Operator	Value	Or	Operator	Value	Or
0	Report Date	between	1/23/2012, 6/29/2013	<input type="checkbox"/>	between	y-6d	<input type="checkbox"/>
1	Company Name	=	VAS Dairy	<input type="checkbox"/>	=	\$company	<input type="checkbox"/>
I 3	Ingredient	=		<input type="checkbox"/>	None		<input type="checkbox"/>



**NOTE:** Date filter values can only be entered as a "Default" value.



**NOTE:** Anything that is changed in the Value column will not be saved. So the next time the user returns to the reports screen, the values will be replaced with the defaults.

Value examples:	
y	Yesterday
t	Today
d	Days
m	Months
yr	Years
wk	Week
Expression examples:	
y-7d	Yesterday minus 7 days
t-7wk	Today minus 7 weeks

Example: If the default filter is.....

**[Report Date] [between] [y-6d]**, and today is 1/31/2012, then the values will initially get set to **[between] [1/24/2012, 1/30/2012]**



**NOTE:** Filter values can be changed prior to running the report.

## **“OR” SETTINGS**

The **OR** option can be used if there is multiple filters. If un-checked, then the previous filter gets combined with the bottom filter. If the OR box is checked, then the top filter OR the bottom filter will be used.

---

*Example 1:* Let’s say there are two filters:

**[Report Date] [between] [1/24/2012, 1/30/2012]**  
**[Company Name] [=] [VAS]**

If “Or” is UN- CHECKED for the first filter, then both filters are combined as:

**[Report Date] [between] [1/24/2012, 1/30/2012] AND [Company Name] [=] [VAS]**

- In other words, both conditions must be met in order for data to be returned

---

*Example 2:* Let’s say there are two filters:

**[Report Date] [between] [1/24/2012, 1/30/2012]**  
**[Company Name] [=] [VAS]**

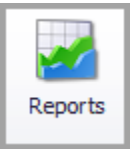
If “Or” is CHECKED for the first filter, then the filters will be run as:

**[Report Date] [between] [1/24/2012, 1/30/2012] OR [Company Name] [=] [VAS]**

- In other words, if either condition is met then data is returned
-

ADDING/REMOVING FILTERS

- 1. Click on the **Reports** icon from the ribbon bar.



- 2. Display the filter options for the report desired by clicking the [+] option from the main grid.

	Graph DM Intake	System	Standard
--	-----------------	--------	----------

- 3. RIGHT-click on the filter desired to remove.

Filters			
Sequence	Column	Operator	Values
0	Report Date	between	6/20
1	Company Name	=	VAS
2	Primary Pen Type	=	

+

Add filter

x

Remove filter

Show Defaults

Right-click on desired filter



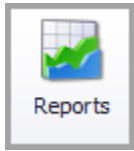
**TIP:** If you are adding a filter, simply RIGHT-click anywhere inside the filter grid to display the fly-out menu, then click **Add filter**.

- 4. Click on the desired option, either **Add filter** or **Remove filter**.
- 5. Click **Save**.



## VIEWING A REPORT

1. Click on the **Reports** icon from the ribbon bar.



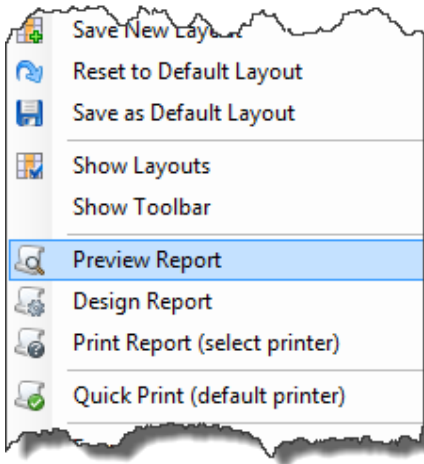
2. RIGHT-click on the desired report from the grid.



**NOTE:** The list of available reports in your FeedWatch application may look different than the list noted below.

Category	Name	Use Type	Type	Version	Filters
+	DM Intake with WB drop	User	Standard	4	VAS Dairy   ...
+	Employee Error Overview	System	Standard	1	VAS Dairy
+	Employee Incentive	User	Standard	0	5/25/2013, ...
+	Employee Incentive	System	Standard	1	5/25/2013, ...
+	Feed Sheet Report	System	Standard	2	VAS Dairy
+	Feeding History	System	Standard	3	6/25/2013, ...
+	Fox Dairy Wet Cake Usage	System	Standard	0	6/25/2013  ...
+	Graph DM Intake	System	Standard	0	6/11/2013, ...
+	Graph Equipment Load & Drop Time	System	Standard	0	6/25/2013  ...
+	Ingredient Usage	System	Standard	0	5/25/2013, ...
+	Ingredient Usage by Day	System	Standard	0	6/19/2013, ...
+	Ingredient Usage by Pen Type	System	Standard	0	6/11/2013, ...

3. Click on **Preview Report** from the fly-out menu.



The report will then open.

FW

Feed Sheet Report

Admin User

VAS Dairy

6/26/2013 12:13 PM

Column	Operator	Value	
CompanyName	=	VAS Dairy	
AM   # of Loads: 6			
AM: 100			
Start Time	Recipe	Equipment	Capacity Remaining
5:00 AM	Springer	Wagon	44,445
<div>Mix Total</div> <div>5,555</div>			
Ingredients			
Mix Order	Ingredient	Location	Total Qty
1	Wheat Straw	On Pad	477
2	Sorghum Silage	Silage Bay 1	2,147
3	Alfalfa Hay	On Pad	2,327
4	Triticale Silage	Silage Bay 1	4,319
5	Corn Gluten	Bay 1	4,552
		Expected Qty	
		477	
		1,670	
		180	
		1,992	
		232	

Example: FeedWatch "Feed Sheet" report



**NOTE:** Once a report is opened, it will need to be closed prior to navigating in FeedWatch again.

- To close the report, click on the **Exit** button from the preview toolbar.



## CREATING A REPORT - OVERVIEW

Reports can be created using 2 different “types.”

- **Grid** type reports – uses a grid panel layout
- **Page** type reports – uses a “Report Designer” utility

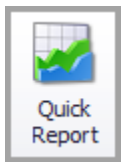
<b>Grid Report</b>	<b>Pros:</b> Quickest report setup method. <b>Cons:</b> Report setup and formatting options are limited.
<b>Page Report</b>	<b>Pros:</b> Will take longer to setup a page report. <b>Cons:</b> Report setup and formatting options are more advanced.



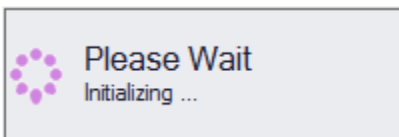
**TIP:** After a report is created, it can be switched from one “type” to another.

## CREATING A “GRID” REPORT

1. Click on the **Quick Report** icon from the ribbon bar.

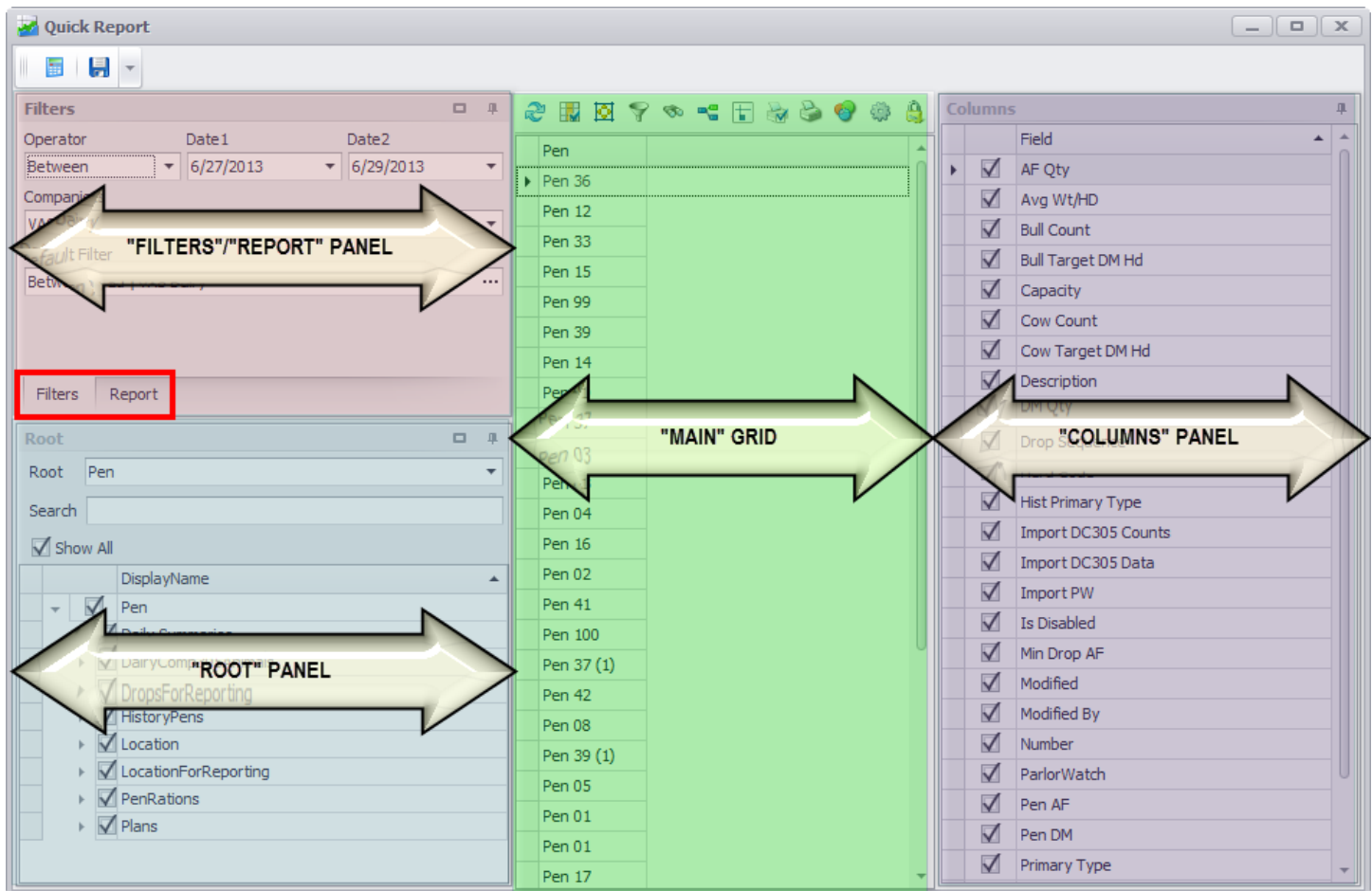


A “Please Wait” message will appear (this message may be visible longer for the first report that is created during the current FeedWatch session).



A **Quick Report** box will then appear (see example on next page).

<b>Filters panel</b>	Allows predefined report filters to be applied.
<b>Report panel</b>	Where the name of the report is setup.
<b>Root panel</b>	Allows for a specific “category” of report to be selected. Options displayed in the <i>Columns panel</i> are influenced by which <b>Root</b> is picked in the <i>Root panel</i> .
<b>Columns panel</b>	Displays the available “fields” that can be added to the report. The fields that are populated in the <b>Columns panel</b> are influenced by which <i>Root</i> is picked from the <i>Root panel</i> .
<b>Main grid</b>	Shows all columns that will be included in the report.



- Specify the desired **Name** and **Type** from the *Report panel*.

<b>GridReport</b>	Allows report setup via a GRID format. <b>Pros:</b> Quickest report setup method. <b>Cons:</b> Report setup and formatting options are limited.
<b>PageReport</b>	Allows report setup via a PAGE format. <b>Pros:</b> Will take longer to setup a page report. <b>Cons:</b> Report setup and formatting options are more advanced.

- Specify the desired default **Filter** from the *Filters panel*.

The **Filters** panel contains the following elements:

- Operator:** A dropdown menu with "Between" selected.
- Date1:** A date field with "7/2/2013" entered.
- Date2:** A date field with "7/4/2013" entered.
- Companies:** A dropdown menu with "VAS Dairy" selected.
- Default Filter:** A text field containing "Between y-2d | VAS Dairy" and a menu icon (three dots).
- Buttons:** "Report" and "Filters" buttons at the bottom. The "Filters" button is highlighted with a red rectangle.

- Specify the desired “parent” **Root** from the *Root panel*.

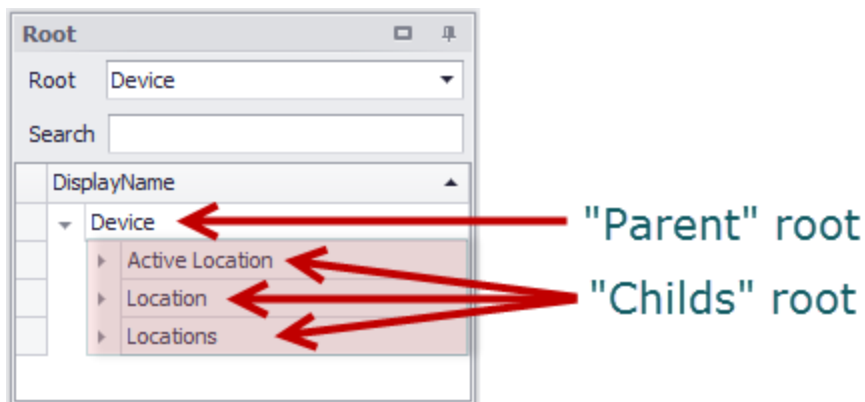
The **Root** panel contains the following elements:

- Root:** A dropdown menu with "Root" selected.
- Search:** A text field.
- Checkbox:** A checked checkbox labeled "Show".
- List:** A list of root options: "Change History", "Contract", "DC305 Animals", "Delivery", "Device", "Equipment", and "Feeding Period".

- Expand the parent Root option (if needed) to display the “child” root options.

The **Root** panel shows the "Device" root option selected in the dropdown. Below the search field, a list of child options is displayed, with "Device" highlighted by a red rectangle. The list also includes a "DisplayName" header and a small upward arrow icon.

Once the parent Root is expanded, the children root options are displayed.



6. Select on the desired “child” root option(s).



**TIP:** Use multiple child roots to build report columns.

*Example:*

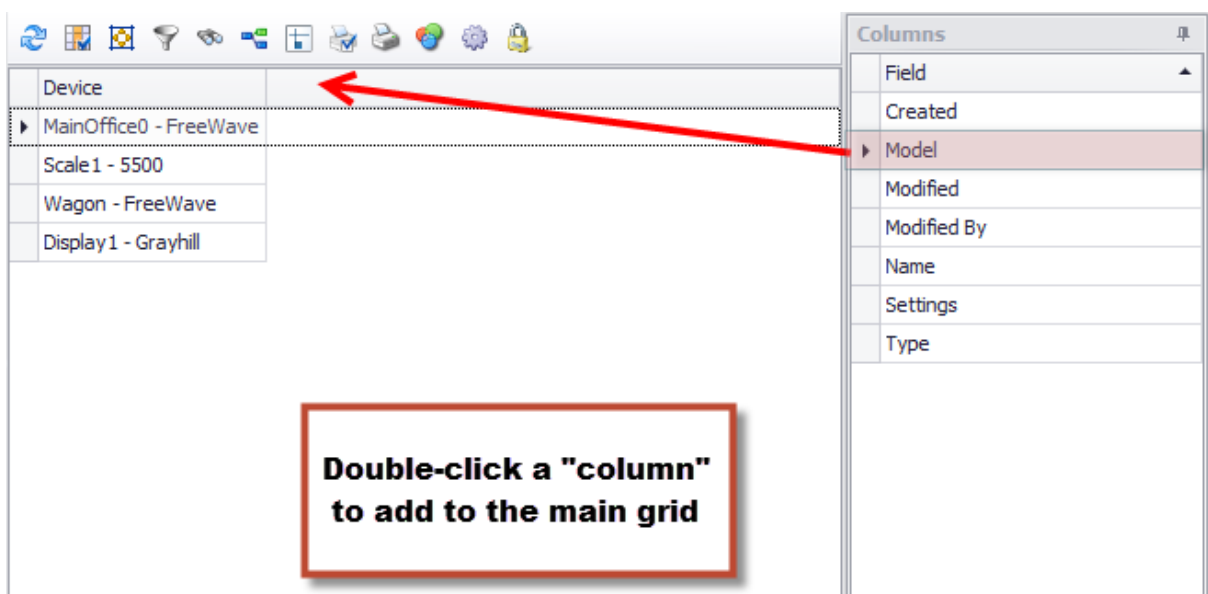
1. Pick the **Active Location** child root and then add columns to the report (via the Columns panel).
2. Next, pick the **Location** child root and then add columns to the report (via the Columns panel).

Now, navigate to the **Columns** panel and you will see all available column options that pertain to the *child root* that is selected in the Root panel.


7. From the **Columns** panel, left-click, hold, drag, and drop the desired column to the main grid.



**TIP:** You could also double-click the field name (i.e. column) in the **Column** panel to add it to the main grid.



You will now see that the column has been added to the main grid.



Device	Model
▶ MainOffice0 - FreeWave	FreeWave
Scale 1 - 5500	5500
Wagon - FreeWave	FreeWave
Display 1 - Grayhill	Grayhill

8. Click on the **Save** button from the main toolbar.

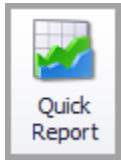


9. Close the report.

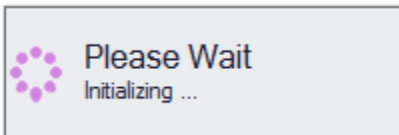
After the report is created, open the report to preview its contents. Refer to the “Viewing a Report” section of this manual for more information on opening a report.

## CREATING A “PAGE” REPORT

1. Click on the **Quick Report** icon from the ribbon bar.



A “Please Wait” message will appear (this message may be visible longer for the first report that is created during the current FeedWatch session).

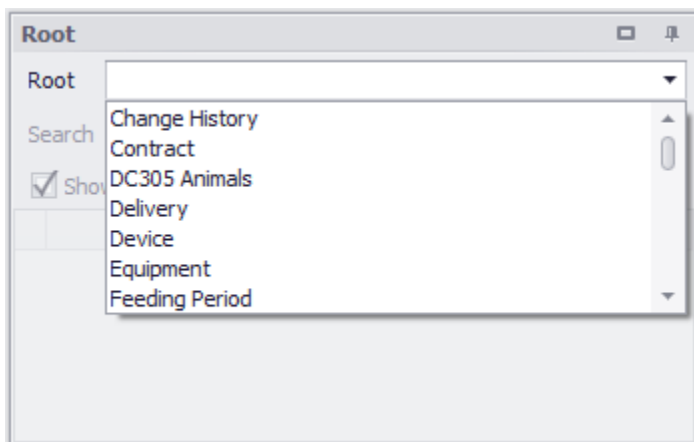


A **Quick Report** box will then appear.

2. Specify the desired **Name** and **Type** from the *Report panel*.

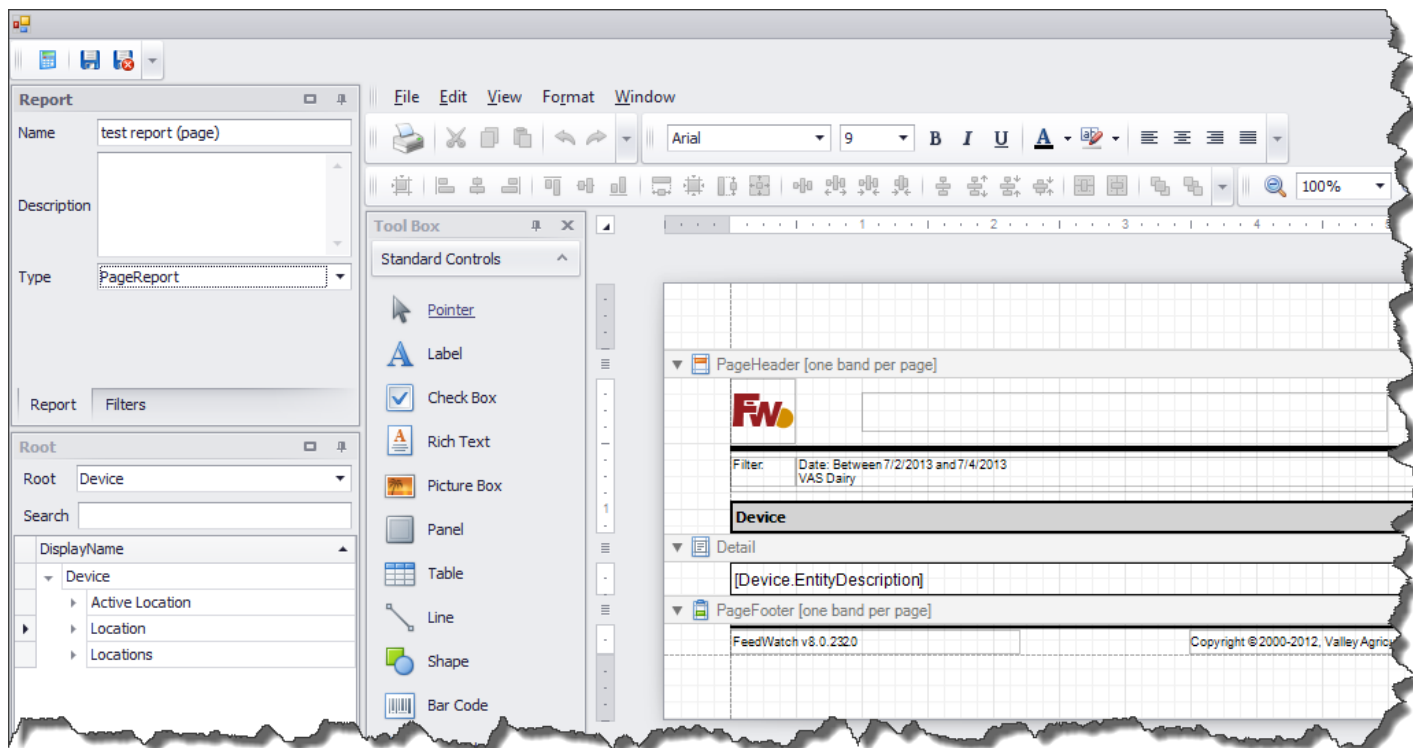
<b>GridReport</b>	Allows report setup via a GRID format. <b>Pros:</b> Quickest report setup method. <b>Cons:</b> Report setup and formatting options are limited.
<b>PageReport</b>	Allows report setup via a PAGE format. <b>Pros:</b> Will take longer to setup a page report. <b>Cons:</b> Report setup and formatting options are more advanced.

3. Specify the desired “parent” **Root** from the *Root panel*.



The screen will look similar to the follow:





4. Click on the **Save** button from the main toolbar.



5. Close the report.

After the report is created, open the Report Designer utility for further setup and modification of the report. Refer to the “Viewing a Report” and/or “Modifying a Page Report” section of this manual for more information.



**NOTE:** Specific details regarding how to use the Report Designer is not covered in this manual.

## MODIFYING REPORTS - OVERVIEW

Reports can be modified in different ways. This depends on the “Type” setting of the report.

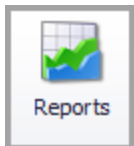
- **Grid** type reports – uses grid panel layout to modify the report
- **Page** type reports – uses “Report Designer” utility to modify the report



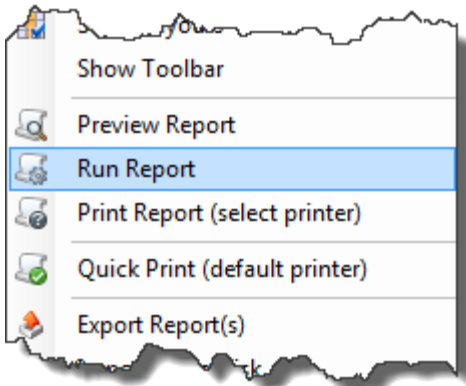
**TIP:** After a report is created, it can be switched from one “type” to another.

### MODIFYING A “GRID” REPORT

1. Click on the **Reports** icon from the ribbon bar.



2. RIGHT-click on the desired report from the grid.
3. Click on **Run Report** from the fly-out menu.



The grid report window will appear.

4. Modify the report as desired. For more information on manipulating reports, refer to the “Creating a Report” section in this manual.
5. Click on the **Save** button from the main toolbar.

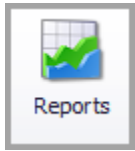


6. Close the report.

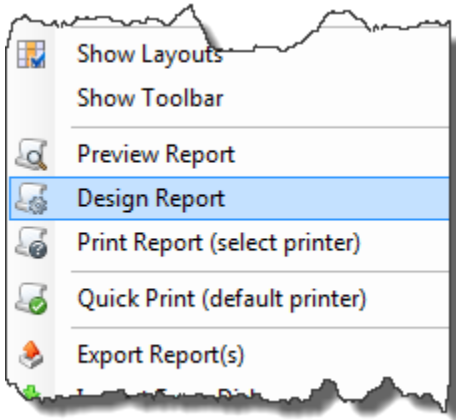
After the report is modified, open the report to preview its contents. Refer to the “Viewing a Report” section of this manual for more information on opening a report.

## MODIFYING A “PAGE” REPORT

1. Click on the **Reports** icon from the ribbon bar.

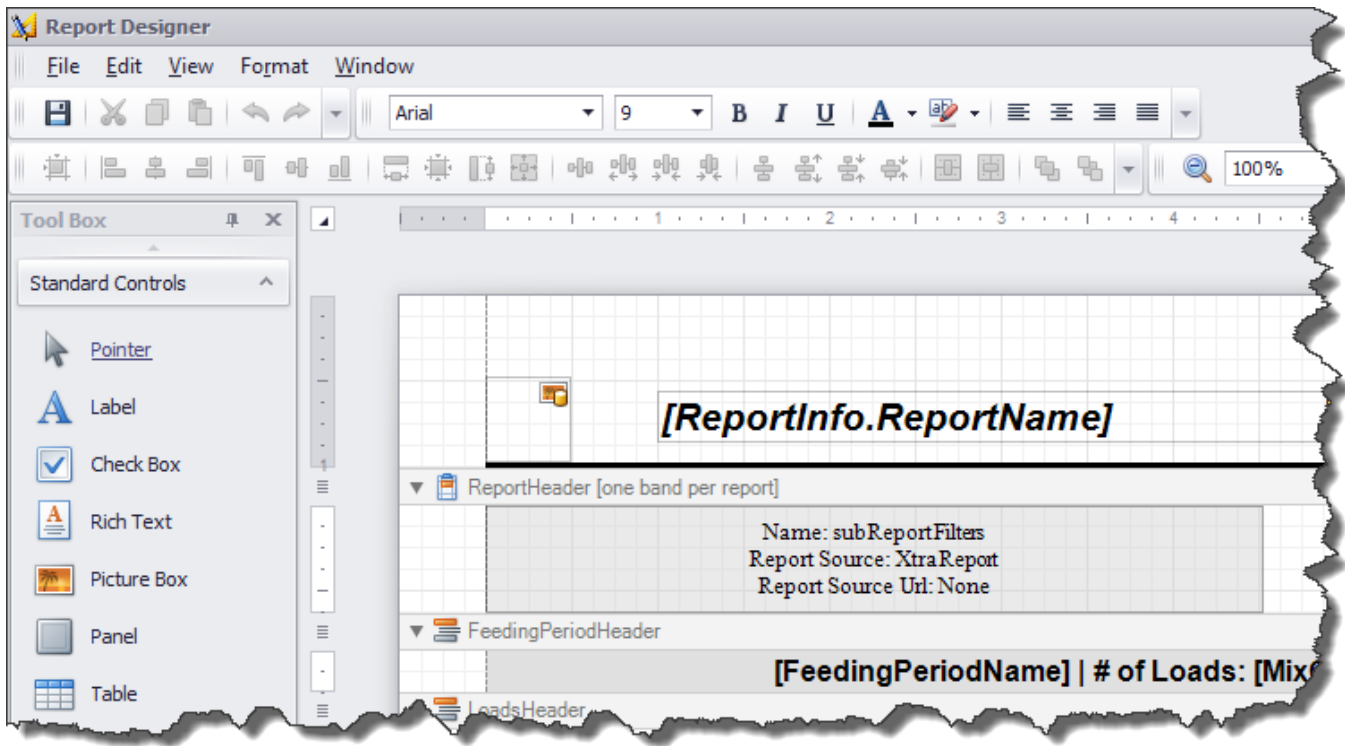


2. RIGHT-click on the desired report from the grid.
3. Click on **Design Report** from the fly-out menu.



**NOTE:** The “Design Report” modification option is only available for **User** type reports (i.e. a **System** report cannot be modified using the Design Report option).

A **Report Designer** window will appear.



Example: Modifying a report via the Report Designer utility.

4. Modify the report as desired via the **Report Designer**.

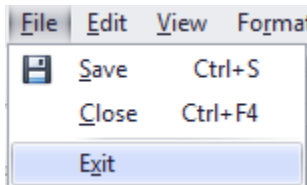


**NOTE:** Specific details regarding how to use the Report Designer is not covered in this manual.

5. Click on the **Save** button from the Report Designer toolbar.



6. Close the report by clicking **File > Exit**.

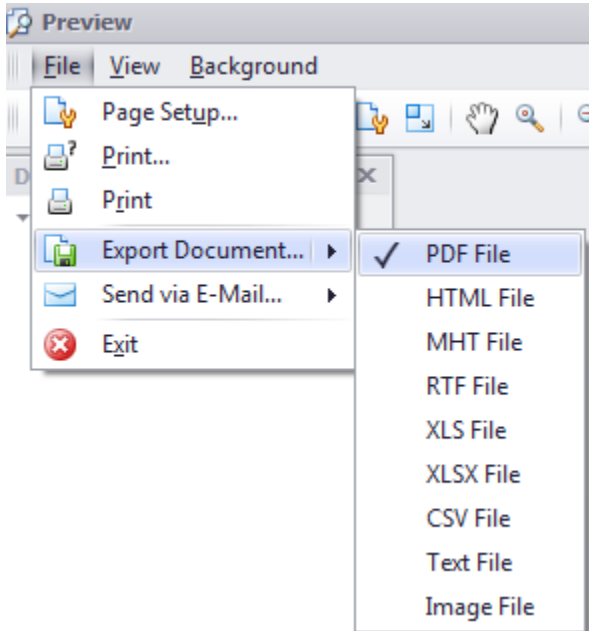


After the report is modified, open the report to preview its contents. Refer to the “Viewing a Report” section of this manual for more information on opening a report.

## EXPORTING A REPORT

Once a FeedWatch report is opened, it can be exported to another file format for later use.

1. Open a report in FeedWatch.
2. From the report Preview window, click on **File > Export Document**.
3. Click on the desired export method from the list (i.e. PDF File, HTML File, MHT File, etc.)



4. An **Options** box will appear. Modify the options as needed (modifying these settings are optional).
5. Click **OK**.
6. A **Save As** box will appear. Specify where you would like to save the file.
7. Click **Save**.

# INVENTORY MANAGEMENT

## INVENTORY TRACKING OVERVIEW

Tracking the inventory balance of an ingredient in FeedWatch is an optional feature. If tracking inventory balances are desired, tracking of one, some, or all ingredients can be performed. Tracking inventory is specific for each location.

*Example:*

Corn Silage, **Pile 1** inventory is **tracked**

Corn Silage, **Pile 2** inventory is **not tracked**

## VERSION 8 INVENTORY TRACKING – WHAT’S NEW?

FeedWatch Version 8 offers many key enhancements to the inventory management process.

Some of these new/improved features include:

- “Live” inventories
- Adjust details of an existing transaction
- Change tracking “start date” and “start time”
- Zero out inventory quickly
- Transfer inventory from one location to another
- Input shrink quantities or percentages

## INVENTORY TRACKING BASICS

When inventory “tracking” of an ingredient is turned on for a specific location, several basic things happen:

- Enabling inventory tracking for the ingredient gives FeedWatch permission to start monitoring the quantity that arrives and/or leaves the facility.
- As soon as a positive inventory balance is recorded, FeedWatch will then use **Current cost** rather than **Base cost** for that ingredient/location.
- After tracking is enabled, any usage of that ingredient/location will be recorded as an **inventory** usage (i.e. inventory deduction).



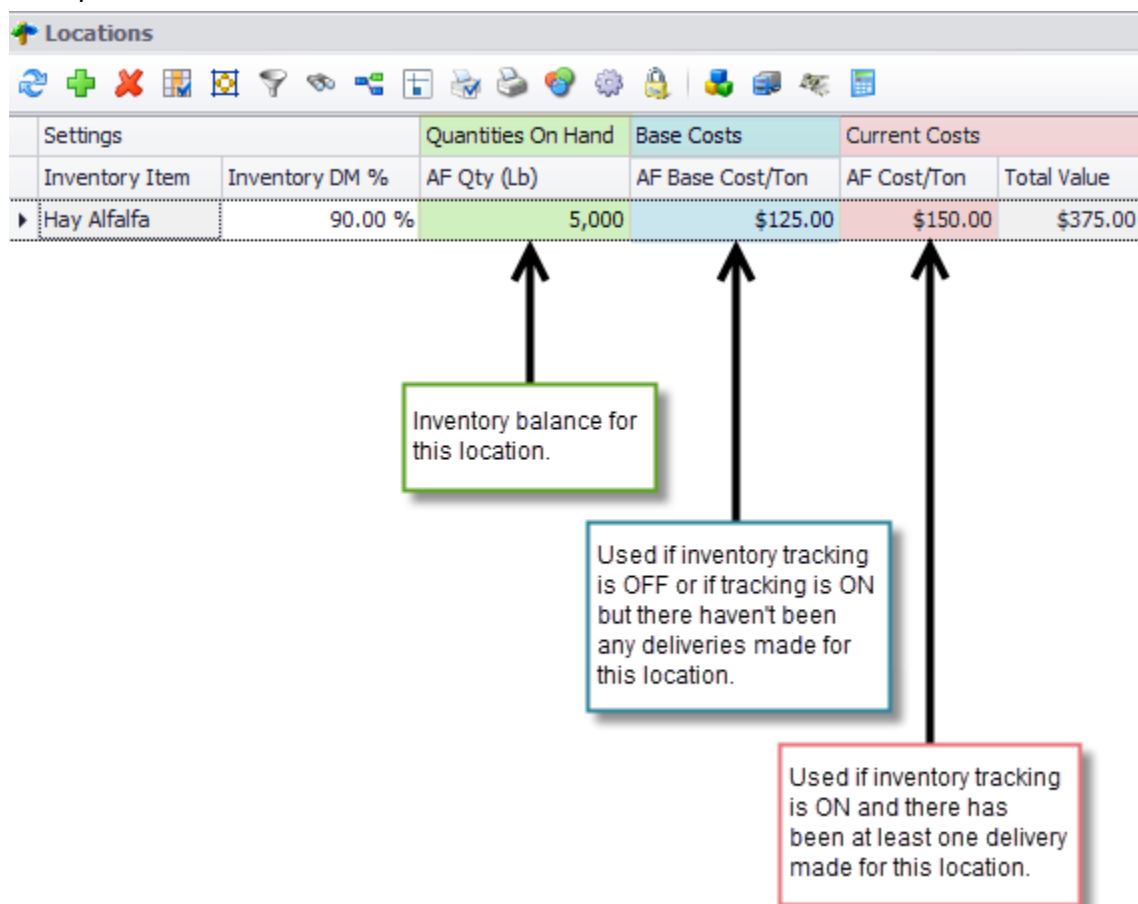
**NOTE:** Ingredient **feeding** usage is monitored separately from the ingredient **inventory** usage. **Feeding usage is ALWAYS recorded by Feedwatch, even if inventory tracking is DISABLED for that ingredient.**

## BASE COST VS. CURRENT COST

There are two different costs methods in FeedWatch. See below for a breakdown of the two methods.

<b>Base Cost</b>	General cost of an ingredient. Only used if inventory tracking is not used for the ingredient/location.
<b>Current Cost</b> OR <b>FIFO Cost (first in first out)</b>	Used if inventory tracking is enabled for the ingredient/location and a delivery has been made.

Example:



Locations					
Settings		Quantities On Hand	Base Costs	Current Costs	
Inventory Item	Inventory DM %	AF Qty (Lb)	AF Base Cost/Ton	AF Cost/Ton	Total Value
Hay Alfalfa	90.00 %	5,000	\$125.00	\$150.00	\$375.00

Inventory balance for this location.

Used if inventory tracking is OFF or if tracking is ON but there haven't been any deliveries made for this location.

Used if inventory tracking is ON and there has been at least one delivery made for this location.



**NOTE:** If inventory tracking is turned on for the ingredient and the balance goes negative, then “last known” **Current Cost** will be used to calculate ingredient usage costs (assuming at least one delivery had been entered for the ingredient).

## CREATING VENDORS

When creating transactions, a vendor is required to be entered for the transaction. Follow the steps below to create a new vendor.

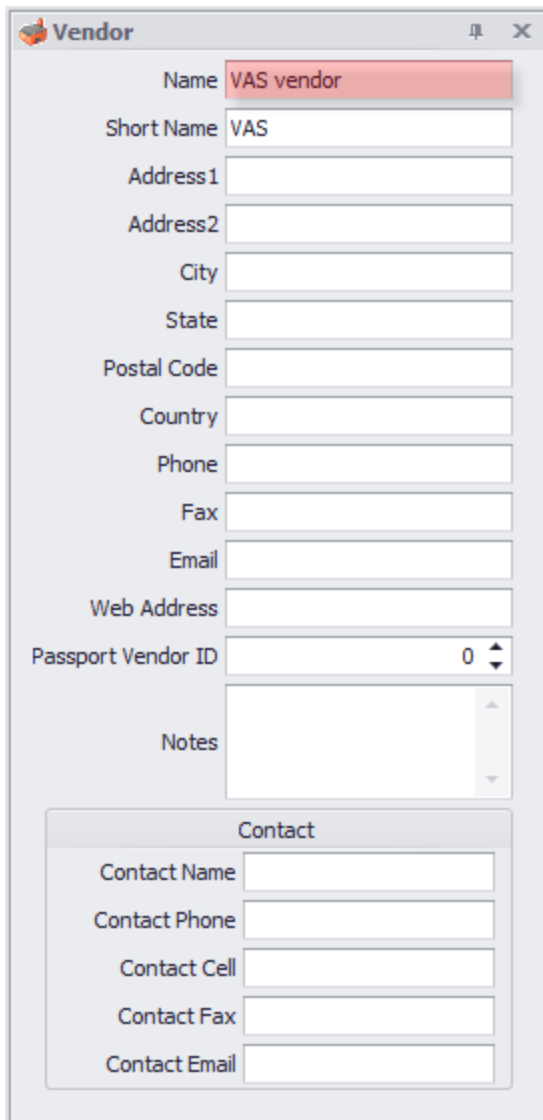
1. Click on the **Vendors** icon from the ribbon bar.



2. Click on the **New** icon from the Vendors toolbar.



3. Navigate to the **Vendor** panel. Enter the necessary information.

A screenshot of the "Vendor" panel in a software application. The panel has a title bar with a red and orange building icon and the word "Vendor". It contains several input fields: "Name" (with "VAS vendor" entered), "Short Name" (with "VAS" entered), "Address1", "Address2", "City", "State", "Postal Code", "Country", "Phone", "Fax", "Email", "Web Address", "Passport Vendor ID" (with "0" entered), and "Notes". Below these fields is a "Contact" section with fields for "Contact Name", "Contact Phone", "Contact Cell", "Contact Fax", and "Contact Email".

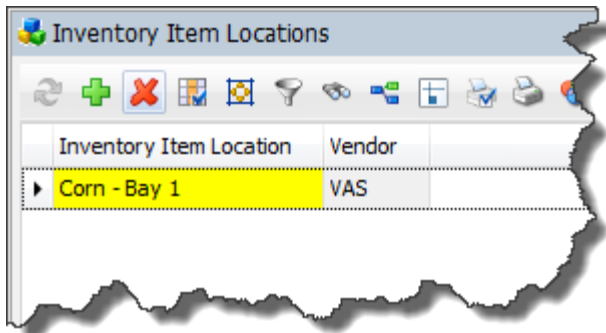
4. Navigate to the **Inventory Item Locations** panel.



- Click on the **New** icon from the Inventory Item Locations toolbar.



- Pick the desired **Inventory Item Location** that this particular vender will be moving. Repeat these last two steps to add as many inventory items that the vendor will be working with.



- After all the vendor information is entered, click **Save**.

## ENABLING INVENTORY TRACKING

Follow the steps below to begin inventory tracking for a specific ingredient. Tracking inventory is independent for each location. So if multiple locations exist for an ingredient, you can enable tracking for just one of the locations if you prefer.

*Example:*

Locations				
Settings				
Inventory Item	Location	Tracking Enabled	DM %	Inventory DM %
Cotton Seed	Bay 1	<input checked="" type="checkbox"/>	88.00 %	88.00 %
Cotton Seed	Bay 2	<input type="checkbox"/>	87.20 %	87.20 %

Inventory tracking enabled for Bay 1 but not Bay 2 location.



**WARNING:** The inventory tracking “enabling” must *PRECED*E the transaction in FeedWatch. If tracking start date/time comes *AFTER* the transaction date/time, then FeedWatch will not be able to process the transaction.

Tracking Enabled	Tracking Start Date	Tracking Start Time
<input checked="" type="checkbox"/>	9/1/2013	11:15:03 AM

Tracking date/time must precede the date/time of the transaction.

1. Click on the **Ingredients** icon from the ribbon bar.



2. From the ingredient list, click on the ingredient that you would like to starting tracking.
3. Navigate to the **Locations** panel.
4. Check the “Tracking Enabled” check box.

Locations				
Settings				
Inventory Item	Location	DM %	Inventory DM %	Tracking Enabled
Corn Silage	unknown	29.00 %	29.00 %	<input checked="" type="checkbox"/>

5. Click **Save**.

### OVERVIEW

The default commodity types that are available in FeedWatch include the following:

-  Animal
-  Bull
-  Cow
-  Ingredient
-  Milk
-  Other
-  Waste

These default types are considered place holders for sub-commodity items. A new commodity item will need to be inputted to be able to create a new sales or delivery transaction.

## CREATING A NEW INGREDIENT COMMODITY TYPE

If you would like to create a new ingredient commodity item, simply follow the steps below. A new commodity item will need to be inputted to be able to create a new sales or delivery transaction.

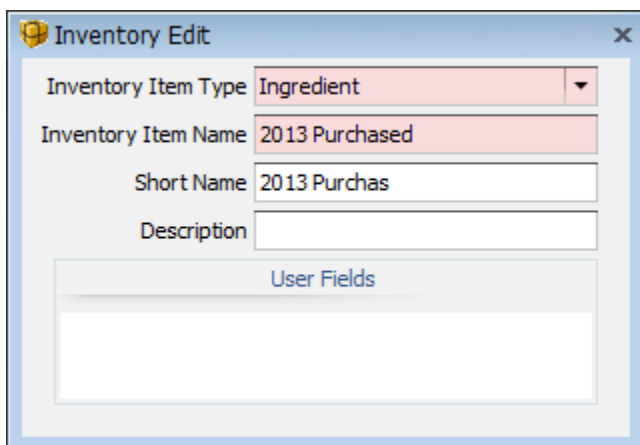
1. Click on the **Commodities** icon from the ribbon bar.



2. Click on the **New** icon from the Commodities toolbar.



3. Navigate to the **Inventory Edit** panel.
4. Enter the **Inventory Item Type**. The new item that you are creating needs to be entered under an existing default Item Type commodity.
5. Enter the **Inventory Item Name**.



The 'Inventory Edit' panel shows the following fields:

- Inventory Item Type:** A dropdown menu with 'Ingredient' selected.
- Inventory Item Name:** A text field containing '2013 Purchased'.
- Short Name:** A text field containing '2013 Purchas'.
- Description:** An empty text field.
- User Fields:** A section with a blue header and an empty text area below it.

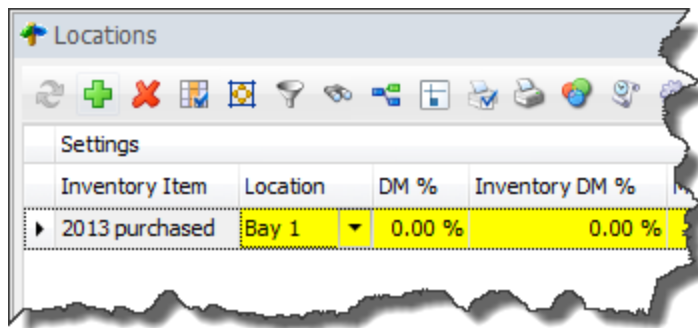


**WARNING:** If the "Inventory Item Type" is set to **Ingredient**, a new ingredient will NOT be created (rather, a new commodity item will be created). To create a new ingredient in FeedWatch, you will need to do so via the Ingredients icon from the main ribbon bar. For more information on creating new ingredients, refer to the "Creating an Ingredient" section of this manual.

6. Navigate to the **Locations** panel.
7. Click on the **New** icon from the Locations toolbar.



8. Enter the necessary information in the **Locations** panel.



9. Click **Save**.

The new commodity item is now created. When creating an ingredient transaction, you will use this new **ingredient inventory item** to create the transaction.

## CREATING A NEW MILK COMMODITY TYPE

If you would like to create a new milk commodity item, simply follow the steps below. A new item will need to be inputted to be able to create a new milk sales transaction.

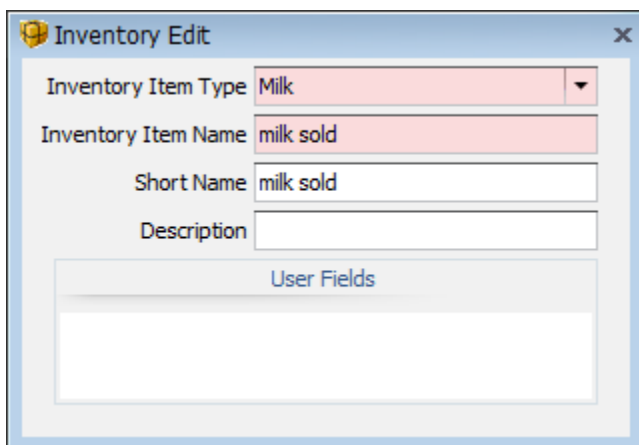
1. Click on the **Commodities** icon from the ribbon bar.



2. Click on the **New** icon from the Commodities toolbar.



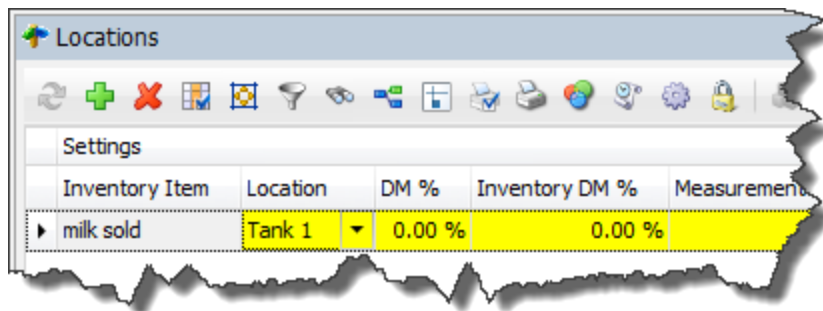
3. Navigate to the **Inventory Edit** panel.
4. Enter the **Inventory Item Type**. The new item that you are creating needs to be entered under an existing default Item Type commodity.
5. Enter the **Inventory Item Name**.

A window titled "Inventory Edit" with a close button (X) in the top right corner. It contains four input fields: "Inventory Item Type" with a dropdown menu showing "Milk", "Inventory Item Name" with the text "milk sold", "Short Name" with the text "milk sold", and "Description" which is empty. Below these fields is a section labeled "User Fields" with a large empty text area.

6. Navigate to the **Locations** panel.
7. Click on the **New** icon from the Locations toolbar.



8. Enter the necessary information in the **Locations** panel.



9. Click **Save**.

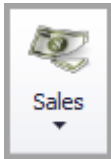
The new commodity item is now created. When creating a milk transaction, you will use this new **milk inventory item** to create the transaction.

## DELIVERIES VS. SALES

There are two different transaction types that can be used to manage commodity movement in FeedWatch.



Commodity “inbound inventory” transaction to the facility. Transaction MUST be a **positive** quantity. (i.e. Weight In must be greater than the Weight Out)



Commodity “outbound inventory” transaction from the facility. Transaction MUST be a **negative** quantity. (i.e. Weight Out must be greater than the Weight In)

\*See below for instructions on how to create a commodity **delivery** and/or **sale** transaction in FeedWatch.



## CREATING DELIVERY TRANSACTIONS



**TIP:** Prior to creating an ingredient transaction, be sure that “Inventory Tracking” is enabled prior to creating the transaction. For more information, refer to the “Enabling Inventory Tracking” section of this manual.

1. Click on the **Ingredients** icon from the ribbon bar.



2. From the ingredient list, click on the ingredient that you would like to create a delivery for.
3. Navigate to the **Locations** panel.



**WARNING:** Be sure an accurate **Inventory DM %** is entered prior to making a delivery.

4. Right-click on the location (i.e. Inventory Item) that you would like to make the delivery for.
5. Select **Make Delivery**.

**Locations**

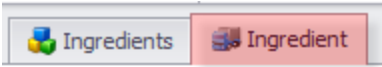
Settings Quantities On Hand Base Costs Current Costs

Inventory Item	Inventory DM %	Tracking Enabled	AF Qty (Lb)	AF Base Cost/Ton	AF Cost/Ton	Total Value
Corn Silage	29.00 %	<input checked="" type="checkbox"/>	10,000	\$43.50	\$0.00	\$0.00

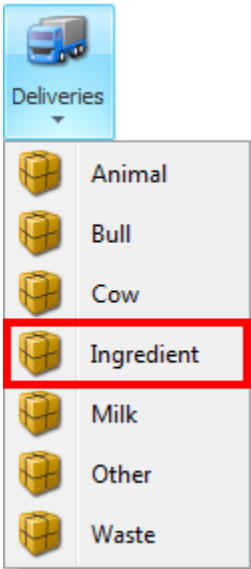
Right-click context menu options:

- Refresh
- Add New
- Delete
- Print Properties
- Print
- Conditional Formatting
- Properties
- Save New Layout
- Reset to Default Layout
- Save as Default Layout
- Show Layouts
- Show Toolbar
- Zero Inventory
- Make Delivery**
- Recalculate Inventory

The **Ingredient Delivery** tab will then automatically open.



**NOTE:** You could also start a delivery by picking the **Deliveries** icon from the main ribbon bar. If a non-ingredient delivery is desired to be created (i.e. Animal, Milk, Waste, etc.) then you **MUST** use the **Deliveries** icon to create the transaction.



- 6. From the *Ingredient Delivery* tab, navigate to the **Delivery** panel.
- 7. Enter the delivery information (Contract Info is optional).

Replace DM %	Sets the location <b>Inventory DM%</b> to match the <b>DM%</b> of the delivery.
Average DM %	Uses the current location <b>Inventory DM%</b> AND the <b>DM%</b> of the delivery and averages the two to determine the new location <b>Inventory DM%</b> .

\*Items noted in pink are required.

Delivery

Contract

[Contract]

Inventory Item

Corn

Weight In

20,000 lb

Unit Quantity

AF Qty (Lb)

20,000 lb

DM Qty (Lb)

17,200 lb

Cost Per

\$0.00

Service Cost

\$0.00

Price Method

Per AFUSTon

Delivery

10/10/2013

Paid Date

Vendor

VAS

Location

Bay 1

Weight Out

0 lb

AF Qty (Ton)

10.00 ton

DM Qty (Ton)

8.60 ton

Total Cost

\$0.00

Service Cost Per

\$0.00

DM %

86.00 %

Delivery Time

10:11:41 AM

Pending

☐

☒ Replace DM %

☐ Average DM %

Contract Info

Name

Number

# Deliveries

0

First Date

Run Out Date

Last Date

Total AF

0.0 lb

Total DM

0.0 lb

Remaining

0.0 lb

Remaining Cost

\$0.00

Contract Service Cost

\$0.00

Contract Service Cost Per

\$0.00

8. Click **Save**.

### INGREDIENT SALES

\*For steps on creating a sale transaction for a “non-ingredient” (i.e. Animal, Milk, Waste, etc.) refer to the next section of this manual.



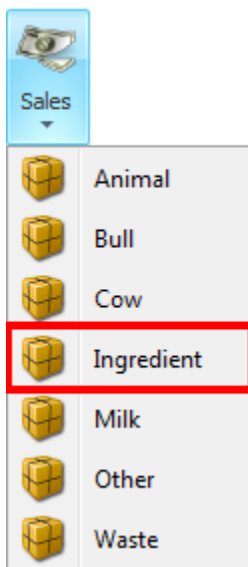
**TIP:** When creating a transaction for an **ingredient**, be sure that “Inventory Tracking” is enabled prior to creating the transaction. For more information, refer to the “Enabling Inventory Tracking” section of this manual.



**NOTE:** Prior to creating ingredient sales transaction, you will need to make sure you have the desired “commodity” (i.e. inventory item) and “vendor” created in FeedWatch.

Refer to the “**Creating an Ingredient**” and/or “**Creating Vendors**” section of this manual for more information.

1. Click on the **Sales** icon from the ribbon bar. Then click on **Ingredient** from the fly-out menu.



2. Click on the **New** icon from the Sales toolbar.



3. Navigate to the **Sales** panel.
4. Enter the desired sales information (Contract Info is optional).

\*Items noted in pink are required.

Sales

Contract

[Contract]

Inventory Item

Corn

Weight In

0 lb

Unit Quantity

AF Qty (Lb)

10,000 lb

DM Qty (Lb)

8,600 lb

Cost Per

\$0.00

Service Cost

\$0.00

Price Method

Per AFUSTon

Delivery

10/10/2013

Paid Date

Vendor

VAS

Location

Bay 1

Weight Out

10,000 lb

AF Qty (Ton)

5.00 ton

DM Qty (Ton)

4.30 ton

Total Cost

\$0.00

Service Cost Per

\$0.00

DM %

86.00 %

Delivery Time

10:00:36 AM

Pending

☐

☒ Replace DM %

☐ Average DM %

Contract Info

Name

Number

# Deliveries

0

First Date

Run Out Date

Last Date

Total AF

0.0 lb

Total DM

0.0 lb

Remaining

0.0 lb

Remaining Cost

\$0.00

Contract Service Cost

\$0.00

Contract Service Cost Per

\$0.00

5. Click **Save**.



**NOTE:** Prior to creating a sales transaction, you will need to make sure you have a “commodity” and “vendor” created in FeedWatch.

Refer to the “**Creating a new Milk Commodity Type**” and/or “**Creating Vendors**” section of this manual for more information.

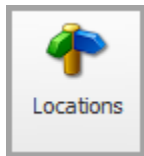
In the example below, we will create a milk sale transaction. Feel free to follow these basic steps for instructions on how to create any other non-ingredient sale transaction (i.e. animal, waste, etc.).

Create a new milk “location” (if you already have the desired location created in FeedWatch, you can skip steps #1-5).

13. Click on the **Setup** option at the top of the FeedWatch application.



14. Click on the **Locations** icon from the Setup ribbon bar.



15. Click on the **New** icon from the Locations toolbar.

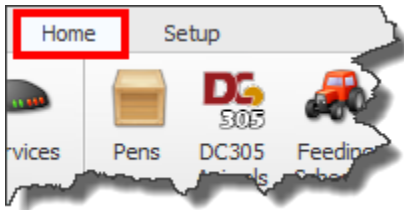


16. Enter the location **Name** and **Type**.

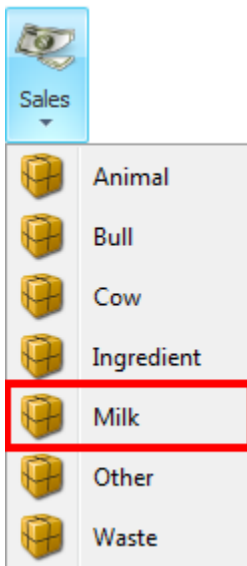
17. Click **Save**.

Now that you have the milk location in FeedWatch, you can create the milk sale transaction.

18. Click on the **Home** option at the top of the FeedWatch application.



19. Click on the **Sales** icon from the ribbon bar. Then click on **Milk** from the fly-out menu.



20. Click on the **New** icon from the Sales toolbar.



21. Navigate to the **Sales** panel.

22. Enter the desired milk sales information (Contract Info is optional).

\*Items noted in pink are required.

Sales

Contract

[Contract]

Inventory Item

milk sold

Weight In

0 lb

Unit Quantity

AF Qty (Lb)

50,000 lb

DM Qty (Lb)

0 lb

Cost Per

\$0.00

Service Cost

\$0.00

Price Method

Per AFUSTon

Delivery

10/10/2013

Paid Date

Vendor

VAS

Location

Tank 1

Weight Out

50,000 lb

AF Qty (Ton)

25.00 ton

DM Qty (Ton)

0.00 ton

Total Cost

\$0.00

Service Cost Per

\$0.00

DM %

0.00 %

Delivery Time

2:35:20 PM

Pending

☐

☒ Replace DM %

☐ Average DM %

Contract Info

Name

Number

# Deliveries

0

First Date

Run Out Date

Last Date

Total AF

0.0 lb

Total DM

0.0 lb

Remaining

0.0 lb

Remaining Cost

\$0.00

Contract Service Cost

\$0.00

Contract Service Cost Per

\$0.00

23. Click **Save**.



## MODIFYING A DELIVERY TRANSACTION

\*To modify an ingredients' **inventory**, please refer to the “*Modifying Inventory Information*” section of this manual. This section will cover how to modify transaction information.

### “VOID” A DELIVERY

If a delivery transaction is desired to be deleted, you will need to “void” this transaction. Follow the steps below to do so.

1. Click on the **Ingredients** icon from the ribbon bar.



2. From the ingredient list, click on the ingredient that you would like to void a delivery for.
3. Navigate to the **Deliveries** panel.
4. Right-click on the delivery that you would like to void. In the example below, we will void the 10,000 lbs. delivery.
5. A fly-out menu will appear, select **Adjust Delivery**.

Deliveries

From 7/29/2013 To 8/28/2013

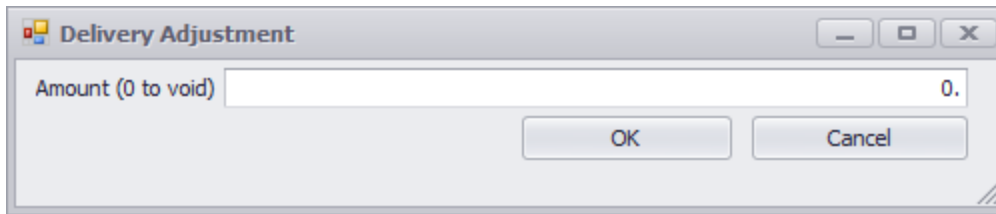
AF Qty (Lb)	Total Cost	Price Method	Inventory Item	DM %	Weight In	Weight Out	Cost Per
10,000	\$555.00	PerAFUSTon	Corn Silage	29.00 %	10.000	0	\$111.00
50,000	\$2,500.00	PerAFUSTon	Co			0	\$100.00

Void (i.e. delete) the 10,000 lbs. delivery for Corn Silage.

- Refresh
- Print Properties
- Print
- Conditional Formatting
- History
- Properties
- Save New Layout
- Reset to Default Layout
- Save as Default Layout
- Show Layouts
- Show Toolbar
- Adjust Delivery**

A **Delivery Adjustment** box will appear.

6. Enter a **0** amount (0 should be populated by default).
7. Click **OK**.

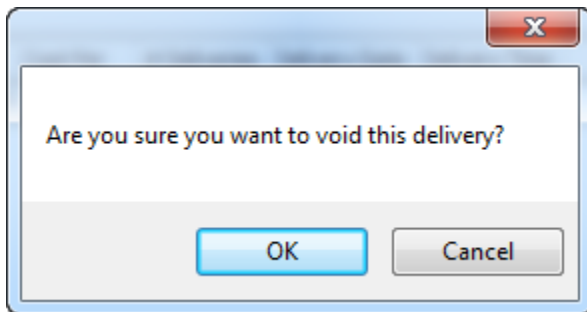


Delivery Adjustment

Amount (0 to void)  0.

OK Cancel

8. A confirmation box will appear, click **OK**.













Are you sure you want to void this delivery?

OK Cancel

The delivery will now be voided (i.e. removed).

Deliveries

From 7/29/2013 To 8/28/2013

AF Qty (Lb)	Total Cost	Price Method	Inventory Item	DM %	Weight In	Weight Out	Cost Per
50,000	\$2,500.00	PerAFUSTon	Corn Silage	30.00 %	50,000	0	\$100.00

The 10,000 lbs. delivery is now removed from the list.

## ADJUSTING THE “QUANTITY” OF A DELIVERY

\*To modify **other information** (i.e. cost, price method, date, etc.) of a delivery, please refer to the “*Adjusting Delivery Information*” section of this manual.

After a delivery transaction is made, its quantity can be updated/adjusted. Follow the steps below to do so for an ingredient delivery.

### **Example:**

\*changing a delivery from **150 lbs.** to **100 lbs.**

	Weight In	Weight Out	NET AF Qty (lb)
Original transaction	200	50	150
Adjusted transaction	150	50	100

Inputted into FW

Auto calculated by FW

1. Click on the **Ingredients** icon from the ribbon bar.



2. From the ingredient list, click on the ingredient that you would like to modify a delivery for.
3. Navigate to the **Deliveries** panel.
4. Right-click on the delivery that you would like to modify.  
\*In the example below, we will modify the quantity of the 50,000 lbs. delivery to 40,000 lbs.
5. Select **Adjust Delivery**.

**Deliveries**

From 7/31/2013 To 8/30/2013

Modify the 50,000 lbs. delivery quantity for Corn Silage.

AF Qty (Lb)	Total Cost	Price Method	Inventory Item	DM %	Weight In	Weight Out	Cost Per
50,000	\$2,500.00	PerAFUSTon	Corn Silage	30.00 %	50,000	0	\$100.00

- Refresh
- Print Properties
- Print
- Conditional Formatting
- History
- Properties
- Save New Layout
- Reset to Default Layout
- Save as Default Layout
- Show Layouts
- Show Toolbar
- Adjust Delivery**

A **Delivery Adjustment** box will appear.

- Enter the updated net delivery amount (in AF LBS).



**WARNING:** Be sure to enter the *net* AF LBS of the delivery (i.e. do not enter updated weight IN or weight OUT quantities). (see example above)

- Click **OK**.

**Delivery Adjustment**

Amount (0 to void)

OK Cancel

The **AF Qty (Lb)** amount will now be updated for the delivery.

**Deliveries**

From 7/31/2013 To 8/30/2013

AF Qty (Lb)	Total Cost	Price Method	Inventory Item	DM %	Weight In	Weight Out	Cost Per
40,000	\$2,000.00	PerAFUSTon	Corn Silage	30.00 %	40,000	0	\$100.00

## ADJUSTING DELIVERY INFORMATION

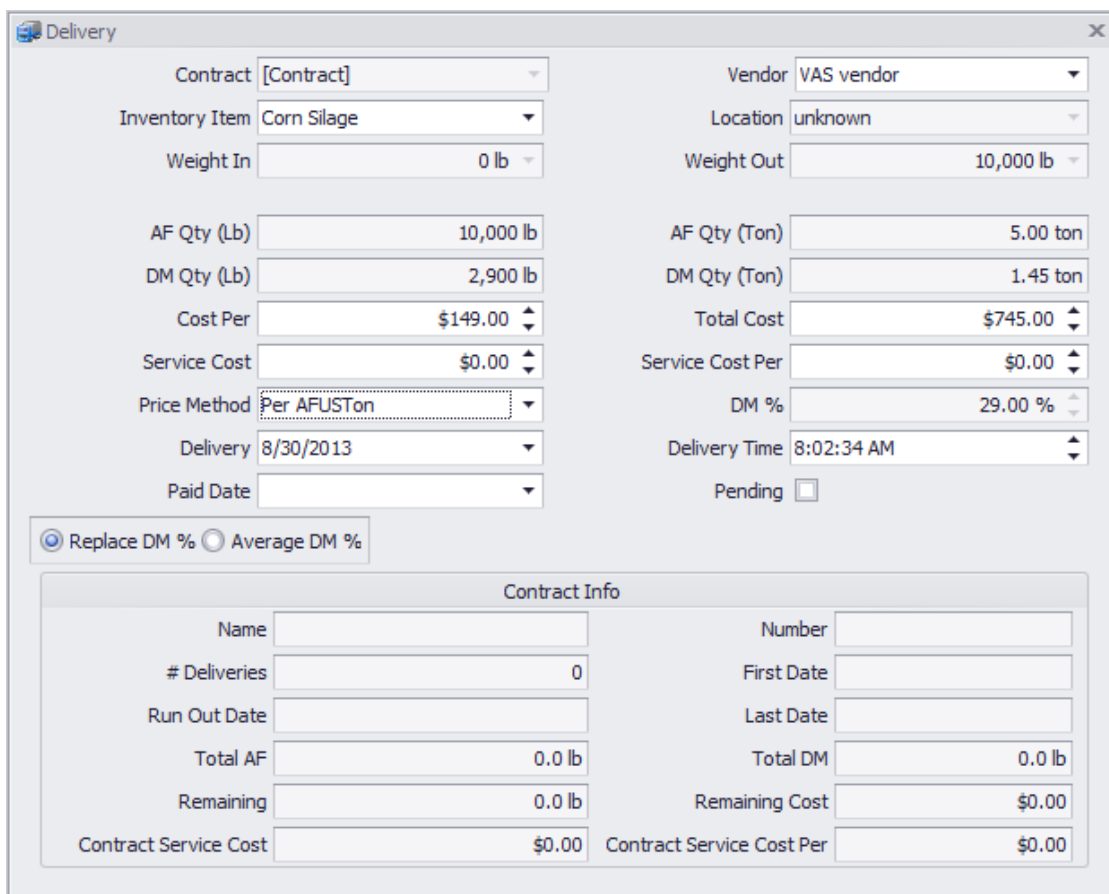
\*To modify the **quantity** of an ingredient delivery, please refer to the “*Adjusting the Quantity of a Delivery*” section of this manual.

The following steps will guide you through how to adjust various information of an existing delivery. Such as cost, price method, date, etc.

1. Click on the **Deliveries** icon from the ribbon bar.



2. From the delivery list, click on the delivery that you would like to modify.
3. Navigate to the **Delivery** panel.
4. Modify the necessary information (i.e. updated cost, date, time, etc.).



Contract	[Contract]	Vendor	VAS vendor
Inventory Item	Corn Silage	Location	unknown
Weight In	0 lb	Weight Out	10,000 lb
AF Qty (Lb)	10,000 lb	AF Qty (Ton)	5.00 ton
DM Qty (Lb)	2,900 lb	DM Qty (Ton)	1.45 ton
Cost Per	\$149.00	Total Cost	\$745.00
Service Cost	\$0.00	Service Cost Per	\$0.00
Price Method	Per AFUSTon	DM %	29.00 %
Delivery	8/30/2013	Delivery Time	8:02:34 AM
Paid Date		Pending	<input type="checkbox"/>

☒ Replace DM % ☐ Average DM %

Contract Info			
Name		Number	
# Deliveries	0	First Date	
Run Out Date		Last Date	
Total AF	0.0 lb	Total DM	0.0 lb
Remaining	0.0 lb	Remaining Cost	\$0.00
Contract Service Cost	\$0.00	Contract Service Cost Per	\$0.00



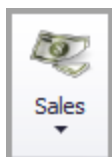
**TIP:** You can also modify the information via the Ingredient Delivery grid (rather than the Delivery panel).

5. Click **Save**.

## “VOID” A SALE

If a sale transaction is desired to be deleted, you will need to “void” this transaction. Follow the steps below to do so.

1. Click on the **Sales** icon from the ribbon bar and pick the desired option: Animal, Bull, Cow, Ingredient, Milk, Other, or Waste.  
\*In the example below, we will void an ingredient sale transaction.



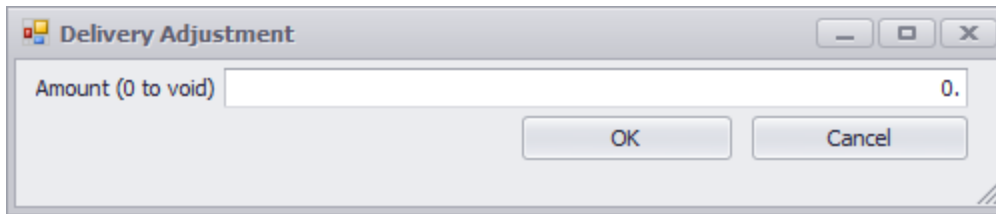
2. From the sales grid, right-click on the sale that you would like to void (we will void the Corn Silage sale in the following example).
3. A fly-out menu will appear, select **Adjust Delivery** (your FW application may say “Adjust Sale”).

Void (i.e. delete) the Corn Silage sale.

Inventory Item	DM %	AF Qty (Lb)	Weight Out	Delivery Date	Delivery Time	Weight In	Cost Per	Vendor
Corn Silage	29.00 %	30,000	30000	8/28/2013	11:28 AM	0	\$100.00	VAS vendor
Mineral	94.00 %	5,000	5000	8/28/2013			\$500.00	VAS vendor

- Refresh
- Add New
- Print Properties
- Print
- Conditional Formatting
- History
- Properties
- Save New Layout
- Reset to Default Layout
- Save as Default Layout
- Show Layouts
- Show Toolbar
- Adjust Delivery**

4. A **Delivery Adjustment** box will appear (your FW application may say “Sale Adjustment”).
5. Enter a **0** amount (0 should be populated by default).
6. Click **OK**.

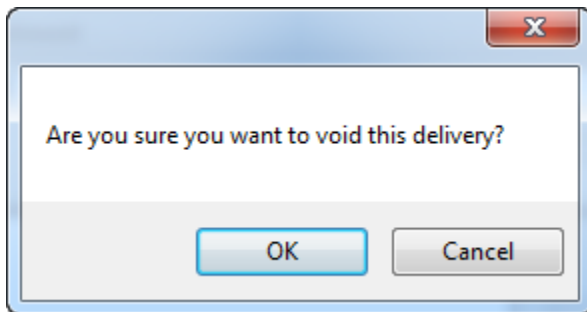


Delivery Adjustment

Amount (0 to void)  0.

OK Cancel















7. A confirmation box will appear, click **OK** (your FW application may say “sale” instead of “delivery”).



Are you sure you want to void this delivery?

OK Cancel

The sale will now be voided (i.e. removed).

Ingredient									
From 7/31/2013 To 8/30/2013									
             									
Inventory Item	DM %	AF Qty (Lb)	Weight Out	Delivery Date	Delivery Time	Weight In	Cost Per	Vendor	
▶ Mineral	94.00 %	5,000	5000	8/28/2013	01:25 PM	0	\$500.00	VAS vendor	

↑

The Corn Silage sale is now removed from the list.

## ADJUSTING THE “QUANTITY” OF A SALE

\*To modify **other informaton** (i.e. cost, price method, date, etc.) of a sale, please refer to the “*Adjusting Sale Information*” section of this manual.

After a sale transaction is made, its quantity can be updated/adjusted. Follow the steps below to do so for an ingredient sale.

### **Example:**

\*changing a sale from **150 lbs.** to **100 lbs.**

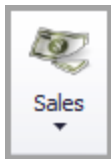
	Weight In	Weight Out	NET AF Qty (lb)
Original transaction	50	200	150
Adjusted transaction	50	150	100

Inputted into FW

Auto calculated by FW

1. Click on the **Sales** icon from the ribbon bar and pick the desired option: Animal, Bull, Cow, Ingredient, Milk, Other, or Waste.

\*In the example below, we will adjust the quantity of an ingredient sale transaction from 5,000 lbs. to 6,500 lbs.



2. From the sales grid, right-click on the sale that you would like to adjust.
3. A fly-out menu will appear, select **Adjust Delivery** (your FW application may say “Adjust Sale”).



Ingredient

From 7/31/2013 To 8/30/2013

Refresh Add New Print Properties Print Conditional Formatting History Properties Save New Layout Reset to Default Layout Save as Default Layout Show Layouts Show Toolbar Adjust Delivery

Inventory Item	DM %	AF Qty (Lb)	Weight In	Weight Out	Delivery Time	Cost Per	Vendor
Mineral	94.00 %	5,000	0	5000	01:25 PM	\$500.00	VAS vendor

A **Delivery Adjustment** box will appear (your FW application may say "Sale Adjustment").

- Enter the updated net sale amount (in AF LBS).



**WARNING:** Be sure to enter the *net* AF LBS of the sale (i.e. do not enter updated weight IN or weight OUT quantities).

- Click **OK**.

**Delivery Adjustment**

Amount (0 to void)

OK Cancel

The **AF Qty (Lb)** amount will now be updated for the sale.

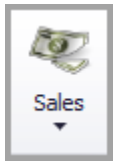
Ingredient							
From 7/31/2013 To 8/30/2013							
Refresh Add New Print Properties Print Conditional Formatting History Properties Save New Layout Reset to Default Layout Save as Default Layout Show Layouts Show Toolbar Adjust Delivery							
Inventory Item	DM %	AF Qty (Lb)	Weight In	Weight Out	Delivery Time	Cost Per	Vendor
Mineral	94.00 %	6,500	0	6500	01:25 PM	\$500.00	VAS vendor

## ADJUSTING SALE INFORMATION

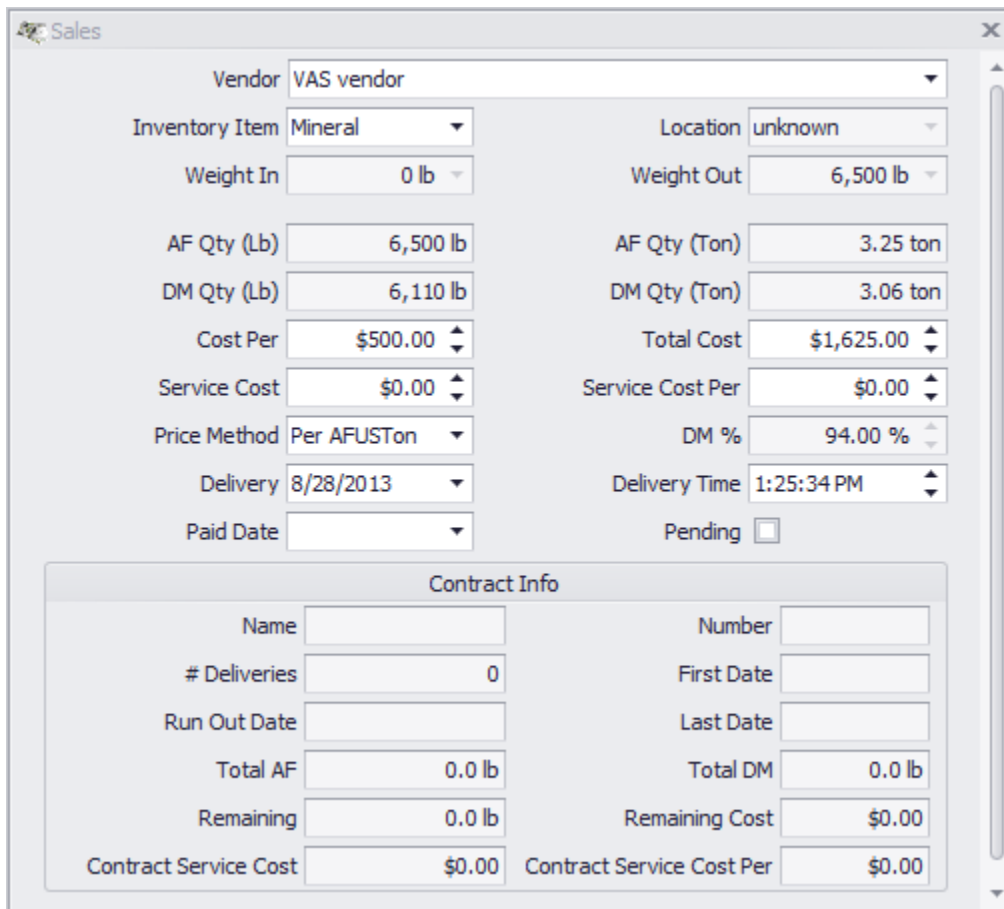
\*To modify the **quantity** of an ingredient sale, please refer to the “*Adjusting the Quantity of a Sale*” section of this manual.

The following steps will guide you through how to adjust various information of an existing sale. Such as cost, price method, date, etc.

1. Click on the **Sales** icon from the ribbon bar.



2. From the sale list, click on the sale that you would like to modify.
3. Navigate to the **Sales** panel.
4. Modify the necessary information (i.e. updated cost, date, time, etc.).



The screenshot shows the 'Sales' panel with various input fields for sale information. The fields are organized into two columns. The left column includes Vendor (VAS vendor), Inventory Item (Mineral), Weight In (0 lb), AF Qty (Lb) (6,500 lb), DM Qty (Lb) (6,110 lb), Cost Per (\$500.00), Service Cost (\$0.00), Price Method (Per AFUSTon), Delivery (8/28/2013), and Paid Date. The right column includes Location (unknown), Weight Out (6,500 lb), AF Qty (Ton) (3.25 ton), DM Qty (Ton) (3.06 ton), Total Cost (\$1,625.00), Service Cost Per (\$0.00), DM % (94.00 %), Delivery Time (1:25:34 PM), and a Pending checkbox. Below these fields is a 'Contract Info' section with fields for Name, Number, # Deliveries (0), First Date, Last Date, Run Out Date, Total AF (0.0 lb), Total DM (0.0 lb), Remaining (0.0 lb), Remaining Cost (\$0.00), Contract Service Cost (\$0.00), and Contract Service Cost Per (\$0.00).



**TIP:** You can also modify the information via the Ingredient Sales grid (rather than the Sales panel).

5. Click **Save**.

## MODIFYING INVENTORY INFORMATION

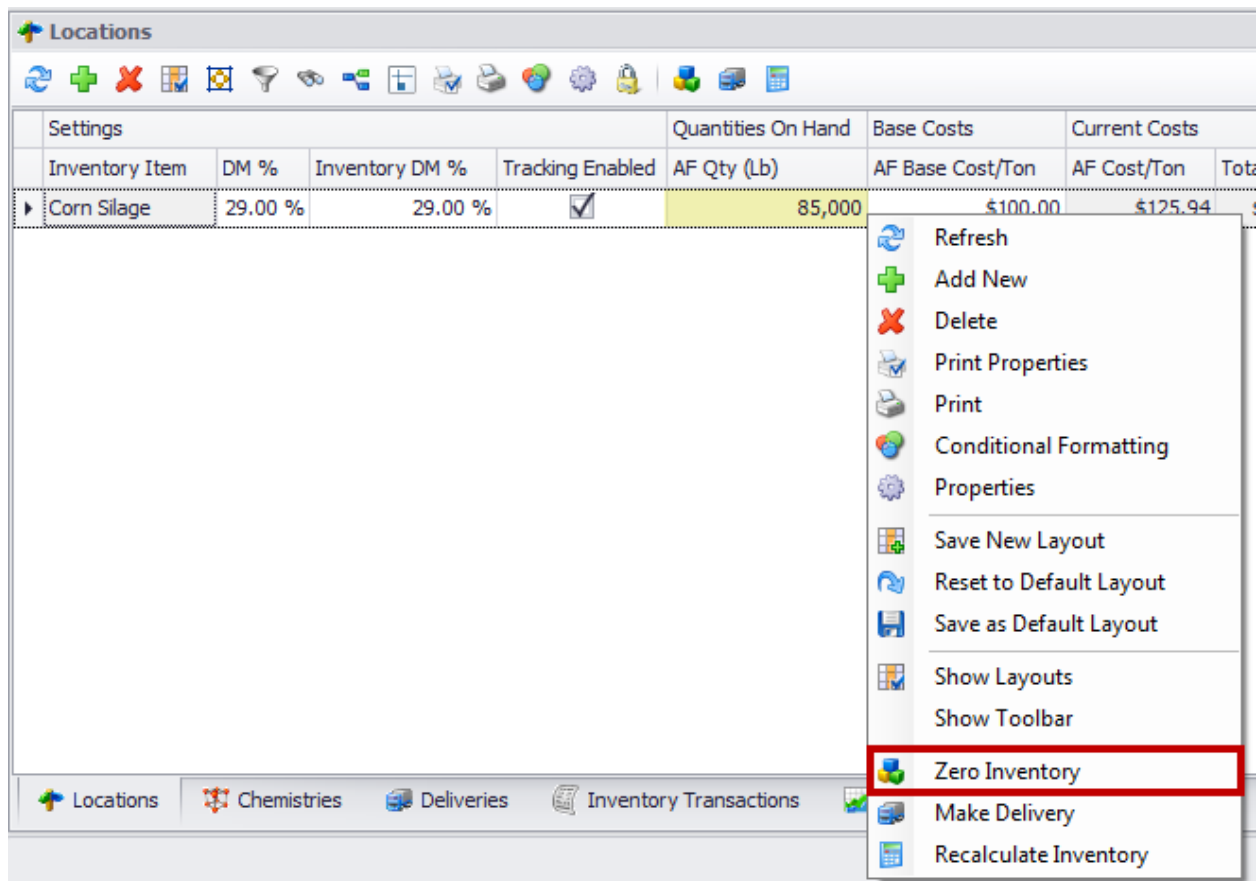
\*To modify a **delivery** or **sale** transaction, please refer to the “*Modifying a Delivery Transaction*” and/or “*Modifying a Sales Transaction*” section of this manual. This section will discuss modifying the inventory balance of an ingredient/location.

### ZERO INVENTORY

1. Click on the **Ingredients** icon from the ribbon bar.



2. From the ingredient list, click on the ingredient that you would like to modify.
3. Navigate to the **Locations** panel.
4. Right-click on the location that you would like to “zero out.” In the example below, we will zero out the 85,000 balance of Corn Silage.
5. A fly-out menu will appear, select **Zero Inventory**.



A **Zero Inventory** box will appear.

6. Set the **date**, **time**, and/or **transaction type** options as desired.
7. Click **OK**.

**Zero Inventory**

Transaction Date: 8/30/2013

Transaction Time: 10:52:57 PM

Quantity: 85,000

Transaction Type: Ignore

OK Cancel

The **AF Qty (Lb)** and **Total Value** fields will now be zero for this location.

Locations							
Settings				Quantities On Hand	Base Costs	Current Costs	
Inventory Item	DM %	Inventory DM %	Tracking Enabled	AF Qty (Lb)	AF Base Cost/Ton	AF Cost/Ton	Total Value
Corn Silage	29.00 %	29.00 %	<input checked="" type="checkbox"/>	0	\$100.00	\$149.00	\$0.00

## RECALCULATE INVENTORY

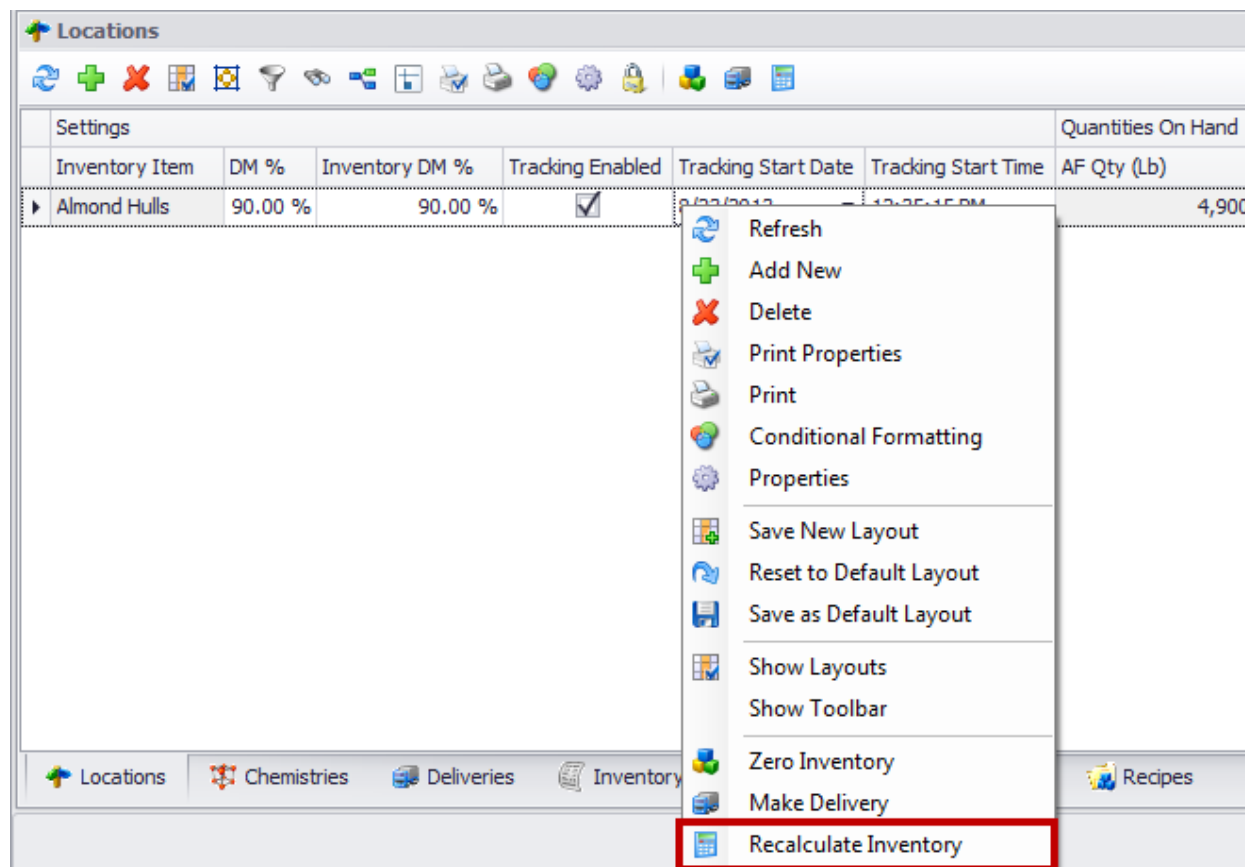
After an ingredient inventory transaction is created, the inventory quantity will be auto calculated by the system. However, if there is a large amount of data that has been recently saved for this location, then the inventory balance may not be updated immediately. To force a manual recalculation of the inventory amount, follow the steps below.

**\*Having to use the Recalculate Inventory tool is usually not required to update the inventory quantities.**

1. Click on the **Ingredients** icon from the ribbon bar.



2. From the ingredient list, click on the ingredient that you would like to modify.
3. Navigate to the **Locations** panel.
4. Right-click on the location that you would like to “recalculate.”
5. A fly-out menu will appear, select **Recalculate Inventory**.



The inventory for that location will then be recalculated.



**NOTE:** *If the inventory was already current, then the information will not update when the **Recalculate Inventory** task is performed.*

## TRANSFER INVENTORY (LOCATION TO LOCATION)

Ingredient inventory can be transferred from one location to another. Follow the steps below to do so.

\*In the example below, we will transfer 25,000 AF lbs of Corn Silage from the Pile 1 location to Pile 2 location.

Locations									
Settings					Quantities On Hand	Base Costs	Current Costs		
Inventory Item	Location	DM %	Inventory DM %	Tracking Enabled	AF Qty (Lb)	AF Base Cost/Ton	AF Cost/Ton	Total Value	
Corn Silage	Pile 1	29.00 %	29.00 %	<input checked="" type="checkbox"/>	100,000	\$100.00	\$129.90	\$6,495.00	
Corn Silage	Pile 2	33.40 %	33.40 %	<input checked="" type="checkbox"/>	0	\$0.00	\$0.00	\$0.00	

Transfer inventory from one location to another.

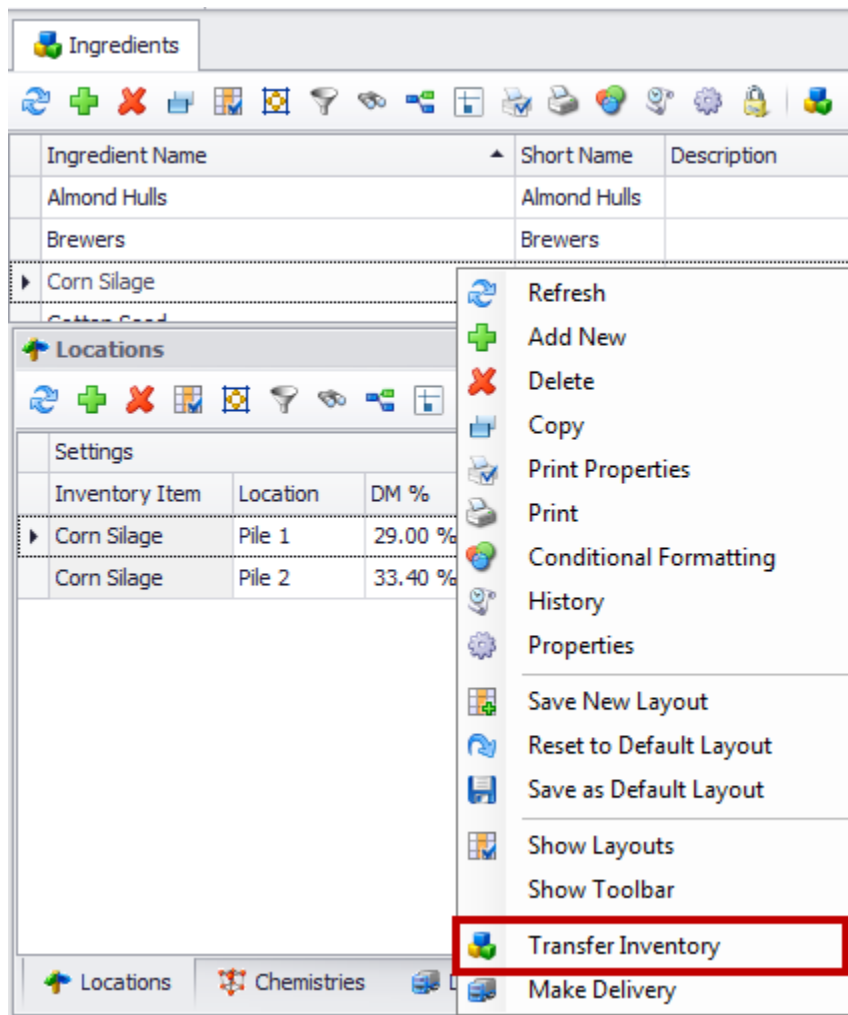
1. Click on the **Ingredients** icon from the ribbon bar.



2. From the ingredient list, right-click on the ingredient that you would like to “transfer” inventory for.
3. A fly-out menu will appear, click on **Transfer Inventory**.



**NOTE:** If there is only one location for the ingredient in FeedWatch, then the **Transfer Inventory** option will be greyed out.



An **Inventory Transfer** box will appear.

4. Enter the information as desired.

**Inventory Transfer**

Corn Silage

From: Pile 1

To: Pile 2

Quantity: 25,000 lb ...

12.5 ton ...

Cost: \$0.0000

Price Method: Per AFUSTon

☐ Use Average Cost  
☐ Use Pile 1 Cost  
☐ Use Pile 2 Cost

☒ Use Average Chemistry  
☐ Use Pile 1 Chemistry  
☐ Use Pile 2 Chemistry

OK Cancel

5. Click **OK**.

**Locations**

Settings					Quantities On Hand
Inventory Item	Location	DM %	Inventory DM %	Tracking Enabled	AF Qty (Lb)
Corn Silage	Pile 1	29.00 %	29.00 %	<input checked="" type="checkbox"/>	75,000
▶ Corn Silage	Pile 2	29.00 %	29.00 %	<input checked="" type="checkbox"/>	25,000

25,000 lbs. has been transferred to Pile 2

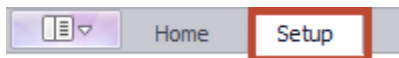




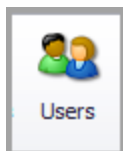
# USER SETUP

## ADDING A USER

1. Click the **Setup** option at the top of the FeedWatch application.



2. Click on the **Users** icon from the ribbon bar.



3. Click on the **New** icon from the Users toolbar.



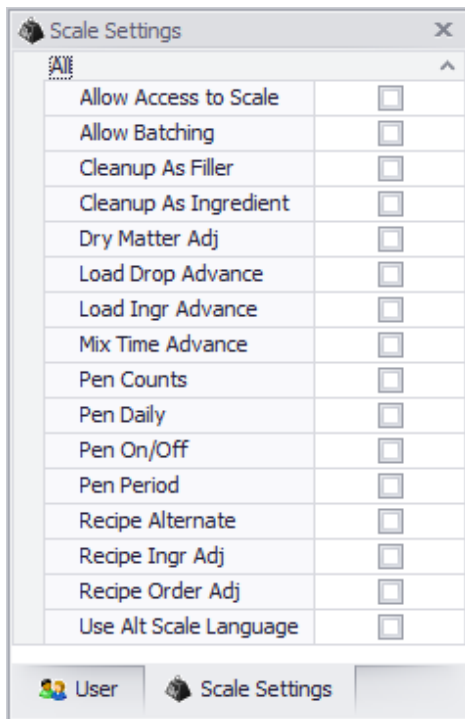
4. Navigate to the **User** panel. Enter the necessary information.

<b>User Name</b>	User name for desktop FeedWatch login (15 character limit).
<b>Password</b>	Password for desktop FeedWatch login.
<b>Scale Login Code</b>	Scale/equipment login code (5 character limit, numbers only).
<b>App Language</b>	The desktop FeedWatch application language this user will see when using FeedWatch.
<b>Scale Language</b>	The language used at the scale/equipment when this user is logged in.
<b>Small Measurement Type</b>	Either ounces or grams.
<b>Medium Measurement Type</b>	Either pounds or kilograms.
<b>Large Measurement Type</b>	Either tons or metric tons.
<b>Use Military Time</b>	Times will be displayed using military time for this user.
<b>First Name</b>	Name will be displayed when logged into FeedWatch (top right of the application).
<b>Last Name</b>	Name will be displayed when logged into FeedWatch (top right of the application).
<b>Employee #</b>	Unique code for each user. Primarily used for multi-company setups.
<b>Price Method</b>	Specifies type of pricing used (desktop only).
<b>Adj Method Type</b>	Method used when making adjustments at the equipment/scale (DM/hd, AF/hd, or AF qty/pen).
<b>User Fields</b>	Specific properties can be added for the user (RIGHT-click in the white box to add).

\*Items noted in pink are required.

5. Navigate to the **Scale Settings** panel. These settings are for the scale/equipment **ONLY** (not the desktop FeedWatch app). Enter the necessary information below.

<b>Allow Access to Scale</b>	Checked = User will have access to log into equipment (scale indicator).
<b>Allow Batching</b>	Checked = Allows user to make batch loads at will.
<b>Cleanup As Filler</b>	Checked = Allows user pick up Weighback/Cleanups and then feed as a "Filler" load (refer to the "Weighbacks" section for more information).
<b>Cleanup As Ingredient</b>	Checked = Allows user pick up Weighback/Cleanups and then feed as an "Ingredient" load (refer to the "Weighbacks" section for more information).
<b>Dry Matter Adj</b>	Checked = Allows user to change DM% of ingredients.
<b>Load Drop Advance</b>	Checked =
<b>Load Ingr Advance</b>	Checked = Allows the ability to press the "Advance" button to skip loading an ingredient.
<b>Mix Time Advance</b>	Checked = Allows the ability to press the "Advance" button to skip mixing an ingredient.
<b>Pen Counts</b>	Checked = Allows user to change pen counts.
<b>Pen Daily</b>	Checked = Allows user to make feeding adjustments by modifying the amount total for a day.
<b>Pen On/Off</b>	Checked = Allows user to turn a pen off or back on for feeding.
<b>Pen Period</b>	Checked = Allows user to make feeding adjustments by modifying the amount for a specific period.
<b>Recipe Alternate</b>	Checked = Allows user the ability to activate or deactivate an alternate recipe.
<b>Recipe Ingr Adj</b>	Checked = Allows user to make ingredient location adjustments to a recipe.
<b>Recipe Order Adj</b>	Checked = Allows user to modify the order that the ingredients will go into the mixer.
<b>Use Alt Scale Language</b>	Checked = The user will use the secondary language on the indicator.



6. Navigate to the **Companies** panel.
7. Click on the **New** icon from the Companies toolbar.

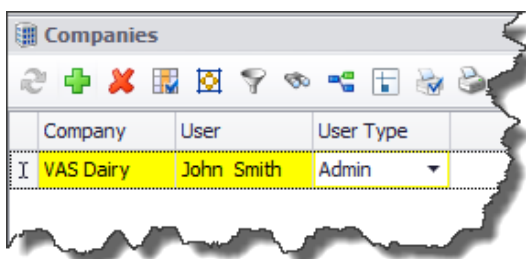


8. Specify the **Company**, **User**, and **User Type** as needed.

User Type options (FeedWatch desktop app ONLY)	
<b>Admin</b>	Full user privileges allowed.
<b>Reader</b>	Can only view information.
<b>User</b>	Viewing is permissible. Can only change "some" of the basic inputs in FeedWatch.



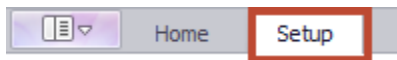
**WARNING:** *Security Groups* override the *User Type* setting. For more information, refer to the "Security Groups" section of this manual.



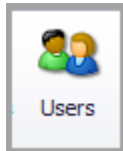
9. Click **Save**.

## DELETING A USER

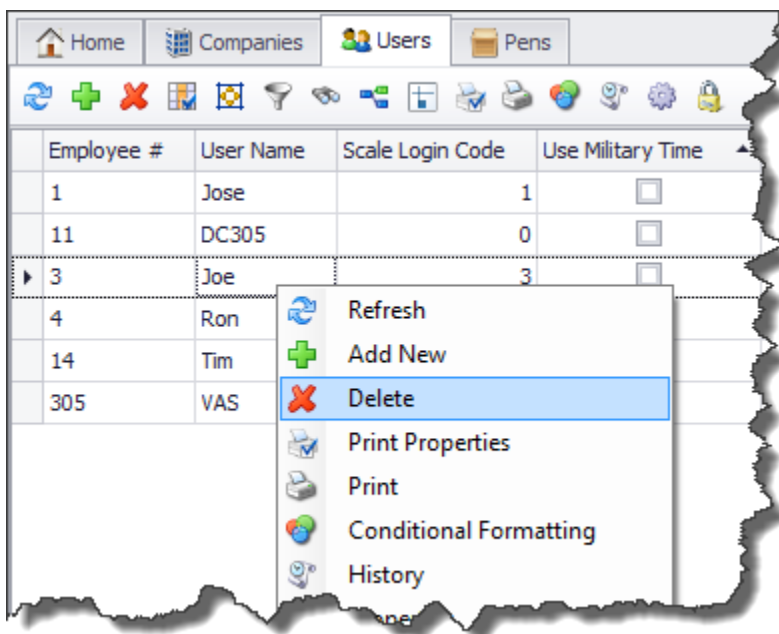
1. Click the **Setup** option at the top of the FeedWatch application.



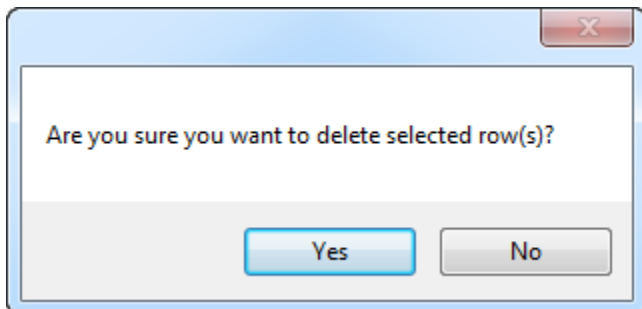
2. Click on the **Users** icon from the ribbon bar.



3. Click on the **New** icon from the Users toolbar.
4. From the users list, RIGHT-click on the user that you would like to delete from FeedWatch. A fly-out menu will appear.
5. Pick **Delete**.



6. A delete confirmation box will appear. If you would like to delete the pen, pick "Yes."



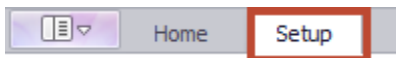
# SECURITY GROUPS

## SECURITY GROUPS OVERVIEW

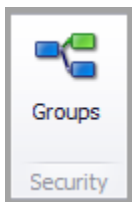
**Security Groups** control user access in FeedWatch. If a Security Group is setup for a user, it will override the User Type setting applied on the Users tab (for more information, refer to the “Users” section of this manual). Security Groups can only be setup and/or modified by a user with appropriate permissions to do so. If a security group setting is not applied to a specific user, the user will have full access (by default).

## ADDING A SECURITY GROUP

1. Click the **Setup** option at the top of the FeedWatch application.



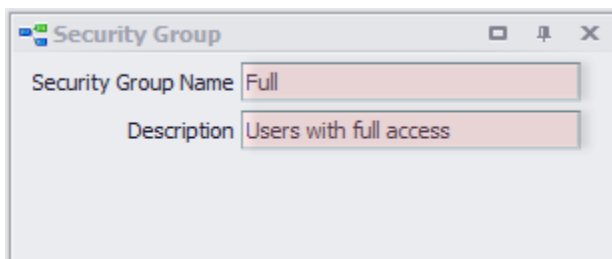
2. Click on the **Groups** icon from the ribbon bar.



3. Click on the **New** icon from the Groups toolbar.



4. Navigate to the **Security Group** panel. Enter the necessary information.

A screenshot of a dialog box titled 'Security Group'. It has two text input fields. The first field is labeled 'Security Group Name' and contains the text 'Full'. The second field is labeled 'Description' and contains the text 'Users with full access'. The dialog box has standard window controls (minimize, maximize, close) in the top right corner.

5. Navigate to the **Features** panel. Enter the desired security settings.

Features	
Feature	Access Rights
Main	ReadWrite
Home	ReadWrite
Setup	ReadWrite
Application	ReadWrite
Entities	None
Company	None
Types	ReadWrite
Security	ReadOnly
Language	ReadOnly

6. Click **Save**.

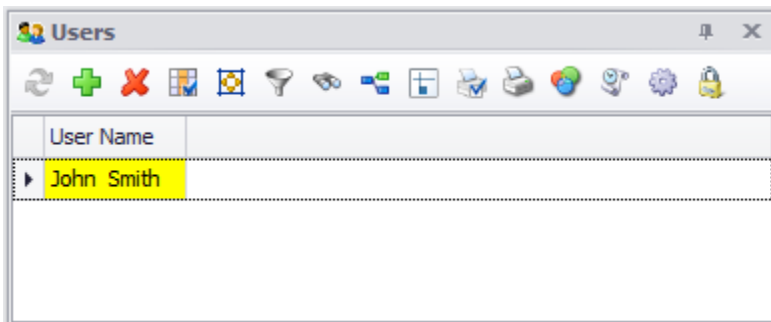
## APPLYING A SECURITY GROUP TO A USER

Now that you have created a security group you can apply this security group to a specific user(s) if desired.

1. Navigate to the **Users** panel.
2. Click on the **New** icon from the Users toolbar.



3. From the pull-down, pick the desired user.
4. Repeat this step if you would like to apply this security group to another user.



5. Click **Save**.

# TASK SCHEDULER

## TASK SCHEDULER OVERVIEW

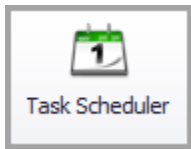
The following events can be run automatically in FeedWatch. This is done by setting up a task scheduler event.

<b>Database Backup</b>	Creates a full backup (.bak file) of the FW database. This typically will be a large file.
<b>Database Export</b>	Creates a backup (.xml file) of the FW database. This typically will be a smaller file than a .bak backup.
<b>Generate Report</b>	Creates a copy of a report and either emails, saves, or prints the report.
<b>Import/Export</b>	Specifies an import or export of data from a Microbatcher, DC 305 program, or ParlorWatch program.
<b>Recipe Swap</b>	Switches the active recipe automatically to a predefined alternate recipe.
<b>Scale</b>	Sends an automatic export of FeedWatch data to the equipment/scale.
<b>Send Message</b>	Sends a message to either an email recipient or to specific FeedWatch equipment.



## CREATING A SCHEDULED TASK

1. Click on the **Task Scheduler** icon from the ribbon bar.

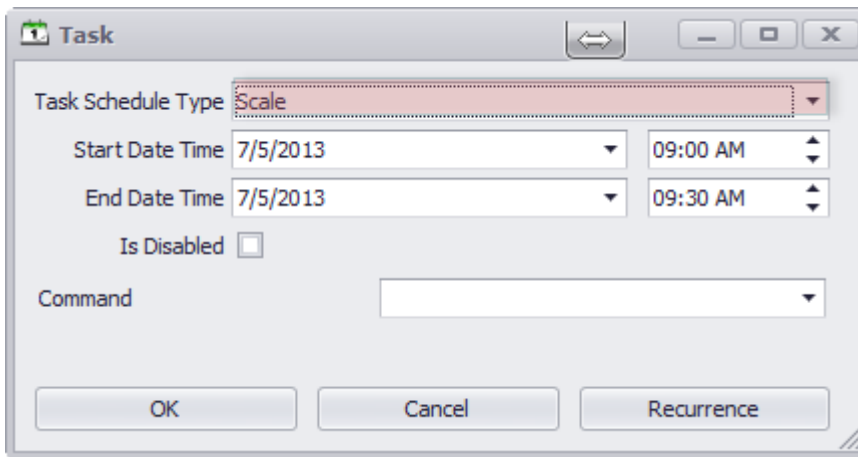


2. Click on the **New** icon from the Task Scheduler toolbar.



A **Task** box will appear.

3. Specify the desired **Task Schedule Type**.

A dialog box titled "Task" with a close button. It contains a "Task Schedule Type" dropdown menu with "Scale" selected. Below this are "Start Date Time" and "End Date Time" fields, both set to "7/5/2013" with time selectors set to "09:00 AM" and "09:30 AM" respectively. There is an "Is Disabled" checkbox which is unchecked. A "Command" field is empty. At the bottom are "OK", "Cancel", and "Recurrence" buttons.

**NOTE:** After the **Task Schedule Type** is picked, the remaining options in the Task box will update per the task that is picked.

4. Enter the remaining information in the Task box.
5. If you would like this task to occur more than once, click the **Recurrence** option.

**Task**

Task Schedule Type: Scale

Start Date Time: 7/5/2013 09:00 AM

End Date Time: 7/5/2013 09:30 AM

Is Disabled: ☐

Command:

OK Cancel **Recurrence**

An **Appointment Recurrence** box will appear.

- Enter the **Appointment Recurrence** details as required.

**Appointment Recurrence**

Appointment time

Start: 9:00:00 AM End: 9:30:00 AM Duration: 30 minutes

Recurrence pattern

☒ Daily  
☐ Weekly ☒ Every 1 day(s)  
☐ Monthly ☐ Every weekday  
☐ Yearly

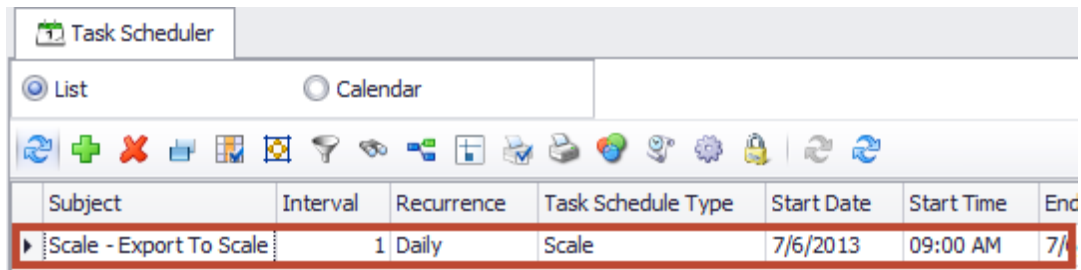
Range of recurrence

Start: 7/5/2013 ☒ No end date  
☐ End after: 10 occurrences  
☐ End by: 7/14/2013

OK Cancel Remove Recurrence

- Click **OK** in the Appointment Recurrence box.
- Click **OK** in the Task box.

The scheduled task is now created and will appear in the Task Scheduler grid.



**TIP:** *If setting up a report to be emailed, additional email settings will need to be entered.*

To setup email settings:

- 1) Click on **Setup** at the top of the FeedWatch application.
- 2) Click on **Application Settings** from the main ribbon bar.
- 3) Enter the **Email Settings**.
- 4) Click **Save**.

Email Settings	
From	<input type="text"/>
SMTP Relay	<input type="text"/>
SMTP Port	<input type="text" value="0"/>
User Name	<input type="text"/>
Password	<input type="password"/>



**TIP:** To ensure that the scheduled tasks are running normally, check the status via the **Services** tab. For more information, refer to the “Communication Services” section of this manual.



## Scheduled Tasks

Scheduled	Failed	Last Run
2	0	7/8/2013 9:00:00 AM

# WEIGHBACKS

## WEIGHBACKS OVERVIEW

The feed leftover (i.e. not consumed) is termed **weighback** (WB) in this manual. This may also be referred to as “cleanup” or “refusal” feed. Recording or weighing weighback quantities is optional. If weighbacks are not documented, FeedWatch will assume that 100% of the feed dropped to the pen has been consumed.

*Example of Dry Matter Intake report showing feed dropped and picked up (weighback feed) for a specific pen.*

Pen Name	Report Date	Avg Pen Count	Tot. Dropped	Avg. Dropped	Tot. Weighbacks	Avg. Weighbacks	Total DM	Avg DM/Animal
Pen 21	07/01/2013	90.0	3,748	41.64			3,748	41.64
	06/30/2013	121.0	5,067	41.88	-398	-3.29	4,669	38.59
	06/29/2013	122.0	5,053	41.42	-350	-2.87	4,703	38.55
	06/28/2013	122.0	5,002	41.00	-495	-4.06	4,507	36.94
	06/27/2013	122.0	5,033	41.25	-571	-4.68	4,462	36.57
	06/26/2013	124.0	5,150	41.53	-1,107	-8.93	4,043	32.60
	06/25/2013	86.0	3,509	40.80	-454	-5.28	3,055	35.52
	Pen 21 Totals:	112.4	32,562	41.37	-3,375	4.29	29,187	37.09

6/25/13 - 3,509 lbs. fed  
6/26/13 - 454 lbs. picked up

**NOTE: The WB picked up on the 26th is displayed on the 25th date**



## FEEDING WEIGHBACK

If weighback is picked up from a pen and then desired to feed to another pen, there are 3 options that can be performed.

FeedWatch will track all 3 scenarios:

- Pick up weighback > then drop immediately to another pen/location (using the “Straight Drop Method”)
- Pick up weighback > add additional ingredients > then drop to another pen (using the “Ingredient Load Method”)
- Pick up weighback > add additional ingredients > then drop to another pen (using the “Filler Load Method”)



**NOTE:** *Specifying which method to use for feeding weighback is determined at the scale by the feeder.*

---

## STRAIGHT DROP METHOD

To pickup weighback/refusal feed and then feed it to another pen (without adding other ingredients), please note the following:

- Must have an ingredient with “Allow Weighback” enabled (refer to the “Creating an Ingredient” section of this manual)
- Weighback quantities (both picked up and dropped) will be accounted for on the DM Intake report

---

## CLEANUP AS INGREDIENT METHOD

To pickup weighback/refusal feed, add additional ingredients, and then feed it to another pen, the “Clean up as Ingredient” method can be used. To use this method, please note the following:

- Creates a “balanced” recipe
- Target load size will be uncontrolled by the feeder (i.e. load size is determined based on the quantity of weighback/refusal picked up and in the mixer)
- After weighback is picked up, feeder chooses the desired load to make, then all of the other ingredients making up the load will “adjust” up or down to keep the correct proportions of the ingredients in tact



**WARNING:** *Using the “Cleanup as Ingredient Method,” the total load size could possibly exceed the mixer capacity if a large quantity of weighback was picked up.*

- The “Cleanup As Ingredient” scale setting must be checked on for the feeder making the load (via Setup > Users tab > Scale Settings)
- Must have a weighback ingredient in FeedWatch with “Allow Weighback” checked on (via Ingredients tab > Ingredient panel)
- Must have at least one recipe with the weighback ingredient in the recipe. Also, this recipe needs to be assigned to a pen or pens
- Weighback quantities (both picked up and dropped) will be accounted for on the DM Intake report



---

## CLEANUP AS FILLER METHOD

To pickup weighback/refusal feed, add additional ingredients, and then feed it to another pen, the “Clean up as Filler” method can be used. To use this method, please note the following:

- May create an “unbalanced” recipe
- Target load size is determined by the AF target quantity of the particular scheduled load that is selected (i.e. load size is not linked to the quantity of weighback/refusal picked up and in the mixer)
- After weighback is picked up, feeder chooses the desired load to make, then all of the other ingredients making up the load will “adjust” up or down to meet the AF target amount of the load
- The “Cleanup As Filler” scale setting must be checked on for the feeder making the load (via Setup > Users tab > Scale Settings panel)
- Must have a weighback ingredient in FeedWatch with “Allow Weighback” checked on (via Ingredients tab > Ingredient panel)
- Must have at least one recipe with the weighback ingredient in the recipe. Also, this recipe needs to be assigned to a pen or pens
- Weighback quantities (both picked up and dropped) will be accounted for on the DM Intake report

# CHANGE HISTORY

## CHANGE HISTORY OVERVIEW

There are several ways to view the historical changes that are made to the data in FeedWatch. These changes are logged automatically by the program. Most of the changes made at both the desktop and scale are recorded by FeedWatch. These changes can be viewed either by one of two methods:

- **History Icon**
- **Panel Box**

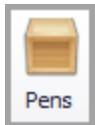
### VIEW CHANGE HISTORY VIA HISTORY ICON

Most of the grids in FeedWatch will have a **History** icon available.



In the example below, we will view change history information for a pen by launching the **History** icon.

1. Click on the **Pens** icon from the ribbon bar.



2. From the pen grid, click on the pen that you would like to view the history for.
3. Click on the **History** icon from the Pens toolbar.

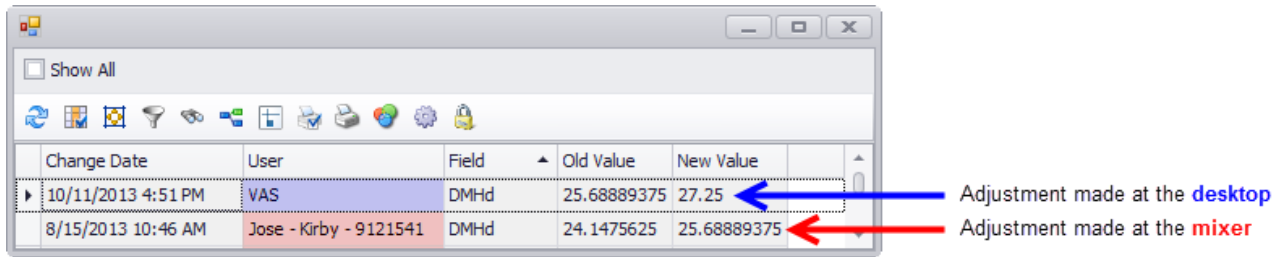


A dialog box will open. If any changes to this pen have been made, they will appear in the dialog box.



**NOTE:** The dialog box will show changes made in that particular grid (i.e. if you click in the Pen grid to launch the history dialog box, the feeding changes will not show. To show the feeding changes, you will need to launch the history icon for the Feedings panel).

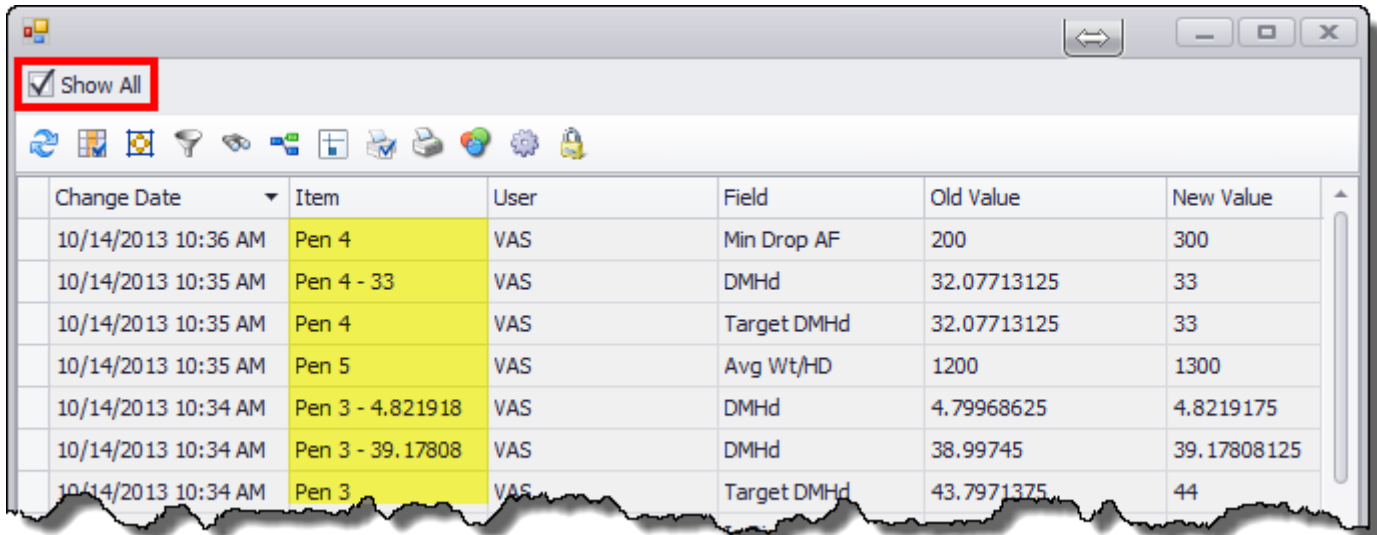
Example: Pen change history



Change Date	User	Field	Old Value	New Value
10/11/2013 4:51 PM	VAS	DMHd	25.68889375	27.25
8/15/2013 10:46 AM	Jose - Kirby - 9121541	DMHd	24.1475625	25.68889375

- Click on the **Show All** box.

All changes made in this particular grid will now appear (i.e. changes for ALL pens will now show in the dialog box).

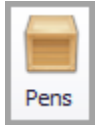


Change Date	Item	User	Field	Old Value	New Value
10/14/2013 10:36 AM	Pen 4	VAS	Min Drop AF	200	300
10/14/2013 10:35 AM	Pen 4 - 33	VAS	DMHd	32.07713125	33
10/14/2013 10:35 AM	Pen 4	VAS	Target DMHd	32.07713125	33
10/14/2013 10:35 AM	Pen 5	VAS	Avg Wt/HD	1200	1300
10/14/2013 10:34 AM	Pen 3 - 4.821918	VAS	DMHd	4.79968625	4.8219175
10/14/2013 10:34 AM	Pen 3 - 39.17808	VAS	DMHd	38.99745	39.17808125
10/14/2013 10:34 AM	Pen 3	VAS	Target DMHd	43.7971375	44

### PEN COUNT CHANGE HISTORY

In the example below, we will view **pen count** change history for a pen by looking at *panel* box information.

1. Click on the **Pens** icon from the ribbon bar.



2. From the pen grid, click on the pen that you would like to view the history for.
3. Navigate to the **Pen Count Change History** panel box.

The pen count change details for this pen will appear (per the date filter range inputted).

Count	Change	Created	Inventory Item Type	Created By
47	2	10/14/2013 11:18 AM	Cow	VAS
45	-2	8/16/2013 11:11 AM	Cow	Jose - Kirby -
47	-4	8/16/2013 7:18 AM	Cow	Jose - Kirby -
51	-1	8/15/2013 10:46 AM	Cow	Jose - Kirby -
52	-5	8/15/2013 1:00 AM	Cow	SERVICE
57	11	8/14/2013 11:07 AM	Cow	Jose - Kirby -

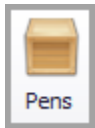
Annotations:

- Change made by user at the **desktop** (points to VAS)
- Change made by user at the **mixer** (points to Jose - Kirby -)
- Change auto imported from **Dairy Comp 305** (points to SERVICE)

## DMI DAILY HISTORY

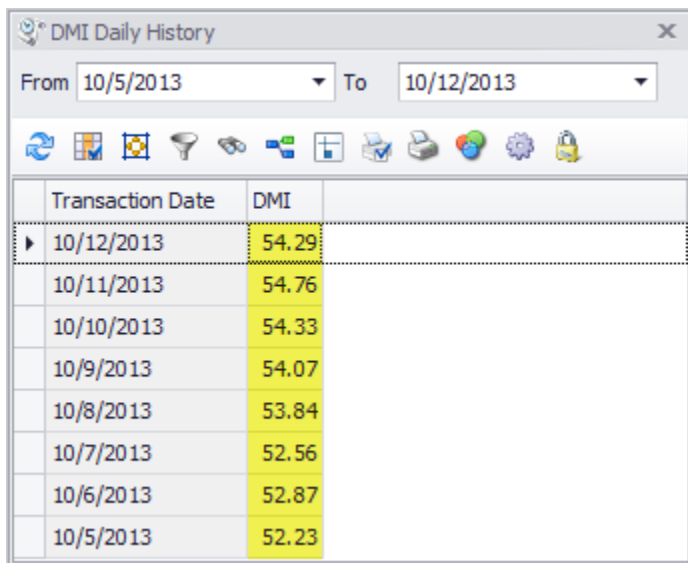
In the example below, we will view **DMI** history for a pen by looking at *panel* box information.

1. Click on the **Pens** icon from the ribbon bar.



2. From the pen grid, click on the pen that you would like to view the history for.
3. Navigate to the **DMI Daily History** panel box.

The DMI details for this pen will appear (per the date filter range inputted).

A screenshot of a software window titled "DMI Daily History". It features a date range filter at the top with "From" and "To" dropdowns set to "10/5/2013" and "10/12/2013" respectively. Below the filter is a toolbar with various icons. The main area contains a table with two columns: "Transaction Date" and "DMI". The table lists daily DMI values from October 5, 2013, to October 12, 2013. The values are: 52.23, 52.87, 52.56, 53.84, 54.07, 54.33, 54.76, and 54.29. The first row is expanded, showing a small triangle icon to its left.

Transaction Date	DMI
10/12/2013	54.29
10/11/2013	54.76
10/10/2013	54.33
10/9/2013	54.07
10/8/2013	53.84
10/7/2013	52.56
10/6/2013	52.87
10/5/2013	52.23

